NOVAL SYSTEM

serramenti **alluminio** - alluminio/**legno**

Catalogo **Tecnico**

Edizione **Settembre 2009**

CLASSIC

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I Descrizione tecnica per capitolato

I PROFILI NOVAL WOOD SONO ESTRUSI IN LEGA DI ALLUMINIO 6060 (UNI 9006/1)
STATO FISICO T5.

IL PESO INDICATO E' QUELLO TEORICO E PUO' VARIARE IN FUNZIONE DELLE
TOLLERANZE DI SPESSORE E DIMENSIONI DEI PROFILI - NORMA UNI 3879 -

LE DIMENSIONI DEI PROFILI SONO TEORICHE E POSSONO VARIARE IN FUNZIONE
DELLE TOLLERANZE DIMENSIONALI DI ESTRUSIONE - NORMA UNI 3879 -
TALE VARIABILITA' , ASSOMMANDOSI AGLI AUMENTI DI SPESSORE
DETERMINATI DALLA FINITURA SUPERFICIALE (LACCATURA), PUO' INFLUENZARE,
SE PUR LIEVEMENTE , LE DIMENSIONI DI TAGLIO E LE SEDI DI INSERIMENTO
GUARNIZIONI E ACCESSORI.

CON L'IMPIEGO DEI PROFILI A BATTENTE NOVAL WOOD E' POSSIBILE REALIZZARE - SPECCHIATURE FISSE -
FINESTRE - PORTE FINESTRA - PORTE - WASISTAS - SPORGERE - BILICI - ANTE A RIBALTA .
NON SONO DA RITENERSI ESLCUSI , EVENTUALI ABBINAMENTI DELLE TIPOLOGIE
ELENCATE, CON SPECCHIATURE A SCORRERE.

I LIMITI DI IMPIEGO (DIMENSIONI MASSIME DEI SERRAMENTI) SONO DETERMINATI,
OLTRE CHE DAL MOMENTO D'INERZIA DEI PROFILATI, DAL PESO DEL TAMPONAMENTO
(VETRO O ALTRO) DALL'ALTEZZA DAL SUOLO , ESPOSIZIONE ALLA PRESSIONE
DEL VENTO, UTILIZZO DI ACCESSORISTICA ADEGUATA.
PER TIPOLOGIE, CON ELEVATA ESPOSIZIONE ALLA PIOGGIA, E' CONSIGLIATO
L'UTILIZZO DEL GOCCIOLATOIO.
IL COSTRUTTORE DEI SERRAMENTI TROVERA' UTILI SUGGERIMENTI CONSULTANDO E
SEGUENDO "LE RACCOMANDAZIONI UNCSAAL" ELABORATE IN BASE ALLE NORME
UNI UNI-EN E UNI-CNR.

LA FINITURA SUPERFICIALE DELL' ALLUMINIO POTRA' ESSERE EFFETUATA MEDIANTE ANODIZZAZIONE
MINIMO 15 MICRON (UNI 4522-66) O VERNICIATURA A POLVERI POLIESTERI
TERMOINDURENTE POLIMERIZZATO IN FORNO.
LA FINITURA DOVRA' ESSERE PROTETTA, NEGLI EVENTUALI TAGLI, CON L'UTILIZZO
DI SIGILLANTI SPECIFICI.

LA POSA IN OPERA DEI SERRAMENTI SI CONSIGLIA DI ESEGUIRLA CON UTILIZZO DI : CONTROTELAI,
BLOCCHETTI DI GIUNZIONE E GUARNIZIONI DI ISOLAMENTO MURO TELAIO
COME DA PRESCRIZIONI UNCSAAL.

I LEGNI SONO FORNITI DALLA NOVAL SCORNICIATI-LEVIGATI-LUCIDATI CON UNA MANO DI FONDO
CONPRESO L'ANTIMUFFA SUL RETRO-RILEVIGATI-RILUCIDATI CON UNA MANO DI FONDO
RILEVIGATI-FINITI CON UNA MANO DI OPACO E RICOPERTI DA PELLICOLA
PROTETTIVA

FASI DI VERNICIATURA

1. il ciclo di verniciatura offre la possibilità di ottenere sugli infissi un eccellente rivestimento protettivo superficiale ed una maggiore vivacità del colore;
2. lo strato deve avere uno spessore di 60 micron sulle parti esposte;
3. il materiale sarà sottoposto al seguente processo:
   sgrassatura senza attacco - lavaggio - dacapaggio alcalino - lavaggio- disossidazione- lavaggio- cromatazione - lavaggio in acqua demineralizzata- asciugatura a 75°C- verniciatura in polveri termoindurenti polimerizzazione in forno

Tutte le lavorazioni eseguite su alluminio devono essere conformi a quanto previsto dal marchio di qualità "Qualicoat".

FASI DI ANODIZZAZIONE

1. lo strato ossido può variare secondo la zona di ubicazione del serramento da 15 a 20 micron (UNI4522-66);
2. può essere normale o elettrocolore;

il materiale sarà sottoposto al seguente processo:
- sgrassatura senza attacco - lavaggio - decapaggio alcalino con attacco (tranne le finiture lucide) - lavaggio - disossidazione - lavaggio- ossidazione in bagno acido solforico a 18/20°C, densità della corrosione 1,5 (A) dmq - colorazioni inorganiche o elettrocolore (tranne argento) - lavaggio doppio - asciugatura - fase di fissaggio a caldo in ebollizione a sali di nichel, fissaggio 2,5 /3 minuti per ogni micron di spessore.

MANUTENZIONE DELLE SUPERFICI IN ALLUMINIO

A seguito dei forti tassi di inquinamento ormai raggiunti in tutti i paesi, specialmente nei grandi centri urbani e nelle zone costiere battute dal vento marino, è molto importante che le superfici dell'alluminio, a contatto con l'atmosfera, siano periodicamente pulite.
Il nostro intento è quello di sensibilizzare il costruttore dei serramenti, affinchè possa di riflesso consigliare il cliente nel migliore dei modi.
E' buona norma tenere in considerazione 3 punti fondamentali:

1. quante volte deve essere eseguita l'operazione di pulizia nell'arco dell'anno,
2. periodo
3. il prodotto da usare.

Ecco le risposte:

1. il numero di interventi viene stabilito sulla base dello stato di inquinamento della zona in cui è ubicato il caseggiato, varia da 1 a 3 volte l'anno.
2. il periodo può essere:

- a fine inverno
- a metà estate
- a metà autunno da scegliere a secondo del numero di interventi

3. Il prodotto per la pulizia è importante che sia neutro, un prodotto sbagliato potrebbe rovinare i materiali di diversa natura di cui è composto un serramento,(guarnizioni, sigillanti, marmi, ecc.) e causare danni che potrebbero compromettere la funzionalità e la durata nel tempo dello stesso.

Le caratteristiche di tali prodotti insieme alla frequenza di pulizia da adottare sono definite nei progetti di norma UNIMET 12.04.270 ed E12.04.277.0.

MANUTENZIONE LEGNO

Pulire e lucidare con prodotti per legno, gli stessi usati nel settore del mobile, per i laccati lucidi e opachi; usando prodotti neutri.

LA **SICUREZZA :** AL FINE DI NON PROVOCARE DANNI FISICI O LESIONI AGLI UTENTI, I SERRAMENTI DEVONO ESSERE CONCEPITI SECONDO LE PRESCRIZIONI DELLA NORMATIVA IN MATERIA DI SICUREZZA DL.626 DEL 19/09/94 E DL.242 DEL 19/03/96, UNI5832 E UNI7697/00 (77-09)

CARATTERISTICHE DELLA VETRATURA : LA SCELTA DELLE VETRAZIONI DEVE ESSERE EFFETTUATA SECONDO CRITERI PRESTAZIONALI PER RISPONDERE AI REQUISITI DI RISPARMIO ENERGETICO, ISOLAMENTO ACUSTICO E CONTROLLO DELL' IRRAGGIAMENTO SOLARE.
RIFERIMENTO NORME: UNI EN ISO 140/3, UNI6534/00, UNI EN 572/1, UNI7170/00, UNI7142/00, UNI7143/00,UNI7144/00.

GUARNIZIONI : LE GUARNIZIONI DOVRANNO ESSERE ESCLUSIVAMENTE QUELLE ORIGINALI STUDIATE PER IL SISTEMA, A GARANZIA DELLE PRESTAZIONI DELLO STESSO E RISPONDENTI ALLE NORME DI RIFERIMENTO UNI3952/00, UNI9122/1 , UNI912/2+FA(89-1), UNI9729 PARTI 1.2.3.4.

SIGILLANTI : I SIGILLANTI DEVONO CORRISPONDERE A QUANTO PRESCRITTO DALLE NORMATIVE DI RIFERIMENTO UNI9610/00, UNI9611, UNI3952/00.TALI MATERIALI NON DEVONO CORRODERE LE PARTI IN ALLUMINIO CON CUI VENGONO A CONTATTO.

ACCESSORI : GLI ACCESSORI DOVRANNO ESSERE QUELLI ORIGINALI, PRODOTTI PER LA SERIE E RISPONDENTI AI CRITERI INDICATI NELLE NORME UNI E ALLE DISPOSIZIONI NORMATIVE IN MATERIA DI SICUREZZA DL.626 E DL.242.

RESISTENZA MECCANICA : IL SISTEMA E GLI ACCESSORI SONO RESISTENTI ALLE SOLLECITAZIONI D'USO SECONDO I LIMITI STABILITI DALLE NORME UNI9158 (88-02) E UNI107/00(83-3)

ISOLAMENTO ACUSTICO : La scelta della classe di isolamento acustico di un serramento va correlata alla destinazione d'uso del locale nel quale l'infisso dovrà essere inserito ed al livello del rumore esterno; il comportamento del serramento in opera è influenzato da fattori che non è possibile definire a priori(h dal suolo, orientamento delle sorgenti sonore ecc.). Il potere fonoisolante potrà essere quindi stimato con buona approssimazione, in base alla permeabilità all'aria del serramento ed al potere fonoisolante del vetro. Secondo la classe di appartenenza dell'infisso(A1, A2, A3) si effettuano delle correzioni al potere fonoisolante del vetro sottraendo i valori Rw: per la classe A1 la perdita di isolamento rispetto al vetro in dB è Rw>8; per la classe A2 è Rw>5; per la classe A3 è Rw>2.
Le norme di riferimento sono le seguenti: UNI8204, UNI7170, UNI7959, UNI8270/3=ISO 140/3, UNI7979/00.

ISOLAMENTO TERMICO : La scelta delle prestazioni di isolamento termico deve essere operata in base alle esigenze di risparmio energetico secondo la legge 10/91 e il Dl. 192/05 e aggiornamento Dl. 311/06 ed alle esigenze di benessere ambientale o riferimento alla norma UNI10345. Si può calcolare la trasmittanza dei profili e delle superfici secondo norma UNI EN 10077/1 con la formula:

$$Uw = (Ag * Ug + Af * Uf + lg * l) / (Ag + Af)$$

Osservazione

Nella fase preventiva il progettista o il serramentista dovrà determinare il tipo di serramento da impiegare sulla base degli elementi forniti dal committente. Nella scelta o controllo si dovrà considerare, sulla base della pressione del vento, il momento di inerzia necessario e scegliere il profilato occorrente nella gamma Wood Classic. Ovviamente, dovranno essere utilizzati adeguati accessori.

II Consigli

CONSIGLI PER UN CORRETTO ASSEMBLAGGIO

Per ottenere i migliori risultati utilizzando i profili NOVAL si consiglia di osservare attentamente tutte le voci di seguito riportate, atte a rinforzare tutti i punti deboli di una finestra comune , ottimizzando così le prestazioni offerte dal serramento.

CONSIGLIO	OBIETTIVO
SIGILLARE LE GUNZIONI DEI PROFILI	EVITA INFILTRAZIONI D'ACQUA EVITA LA CORROSIONE E L'OSSIDAZIONE
SIGILLARE I PROFILI SUL MONTANTE QUANDO GLI STESSI VENGONO INTESTATI	EVITA INFILTRAZIONI D'ACQUA EVITA LA CORROSIONE E L'OSSIDAZIONE
UTILIZZARE L'ANGOLO VULCANIZZATO DELLA GUARNIZIONE DI BATTUTA CENTRALE	AUMENTA LA PERMEABILITA' ALL'ARIA AUMENTA LA TENUTA ALL'ACQUA
RISPETTARE LE CURVE LIMITE DI UTILIZZO PER LA SCELTA DEL PROFILO	EVITA SCELTE INADEGUATE DEL PROFILO
SIGILLARE IL SERRAMENTO SUL PERIMETRO TRA TELAIO E CONTRATELAIO CON SIGILLANTE NEUTRO	EVITA INFILTRAZIONI D'ACQUA
UTILIZZARE SEMPRE I TASSELLI DI REGISTRO	FACILITA LA POSA IN OPERA INQUADRA MEGLIO IL TELAIO ISOLA I MATERIALI LIMITA LA TRASMISSIONE DELLEVIBRAZIONI
PROTEGGERE TUTTE LE LAVORAZIONI EFFETTUATE SUI PROFILI	EVITA LA CORROSIONE E L'OSSIDAZIONE FACENDO AUMENTARE LA DURATA DELL'INFISSO NEL TEMPO
UTILIZZARE CONTROSAGOME DURANTE IL TAGLIO A 45°	GARANTISCE UN TAGLIO CORRETTO AL FINE DI OTTENERE UNA GIUNZIONE D'ANGOLO PERFETTA

IL FENOMENO CONDENSA

La condensa è un fenomeno che si è sempre manifestato nelle abitazioni in relazione alla struttura dell'edificio, alle circostanze abitative ed alle condizioni climatiche esterne ed interne. È errato, quindi attribuire la colpa, come spesso accade, ai serramenti. In questo approfondimento cercheremo di spiegare, in modo semplice, la problematica della condensa, mettendo in rilievo i seguenti punti:

.. Definizione fisica;
.. Fattori determinati;
.. Rimedi.

DEFINIZIONE FISICA

L'aria che ci circonda è costituita da un miscela di gas e da una quantità di vapore acqueo. L'aria, a temperature elevate,aumenta il suo volume e assorbe vapore acqueo, fino al punto di diventare satura.
Avremo allora una "umidità relativa" alta. (lo strumento che permette di rilevarla è l'igrometro). L'aria,a contatto con una superficie fredda, riprende il suo volume originale ed espelle il vapore che si condensa trasformandosi in gocce d'acqua. Queste gocce, che si depositano sulle superfici fredde, sono dette "rugiada". La temperatura alla quale avviene questa trasformazione è detta "temperatura di rugiada" ed il punto in cui inizia è definito "punto di rugiada". Esistono tabelle che forniscono questi valori .

FATTORI DETERMINANTI

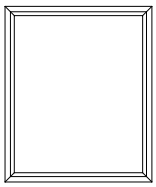
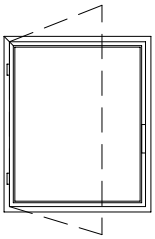
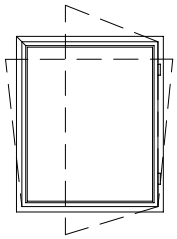
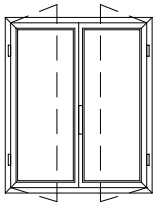
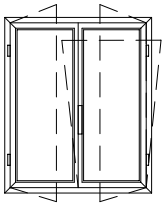
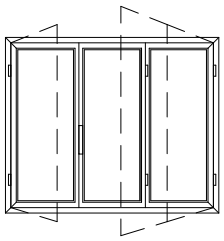
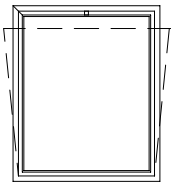
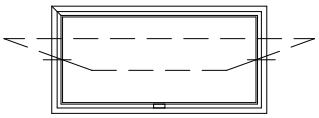
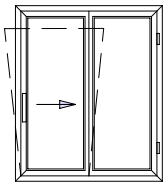
.. **Condizioni climatiche** giorni di pioggia, nebbia o neve.

.. **Condizioni abitative** in un ambiente, rilevanti quantità di umidità vengono prodotte dalle piante; un ficus, per esempio, emana circa 20 gr/h di vapore acqueo. Anche la presenza umana comporta un aumento di umidità, con un apporto valutabile in circa 120-150 gr. d'acqua l'ora a persona, dovuti alla respirazione e alla traspirazione. A questo va aggiunto il vapore prodotto cucinando o facendo la doccia. Pertanto all'interno di un appartamento possono formarsi circa 10 litri di acqua al giorno.
.. **Condizioni strutturali** Le strutture abitative di nuova costruzione sono quelle più pericolose per la formazione di condensa; infatti, oggi si costruisce in modo molto veloce non lasciando asciugare bene quelle parti che contengono acqua. Subito dopo si procede, con tali lavori terminati o ancora in corso, all'installazione dei serramenti. I serramenti (PVC, legno, alluminio alluminio/legno e legno/alluminio) tutti con chiusure ermetiche, contribuiscono perché, l'umidità interna non ha modo di evacuare verso l'esterno.

In una casa nuova, il problema della condensa piuttosto evidente, va scomparendo negli anni seguenti dato che la struttura ha modo di asciugarsi.

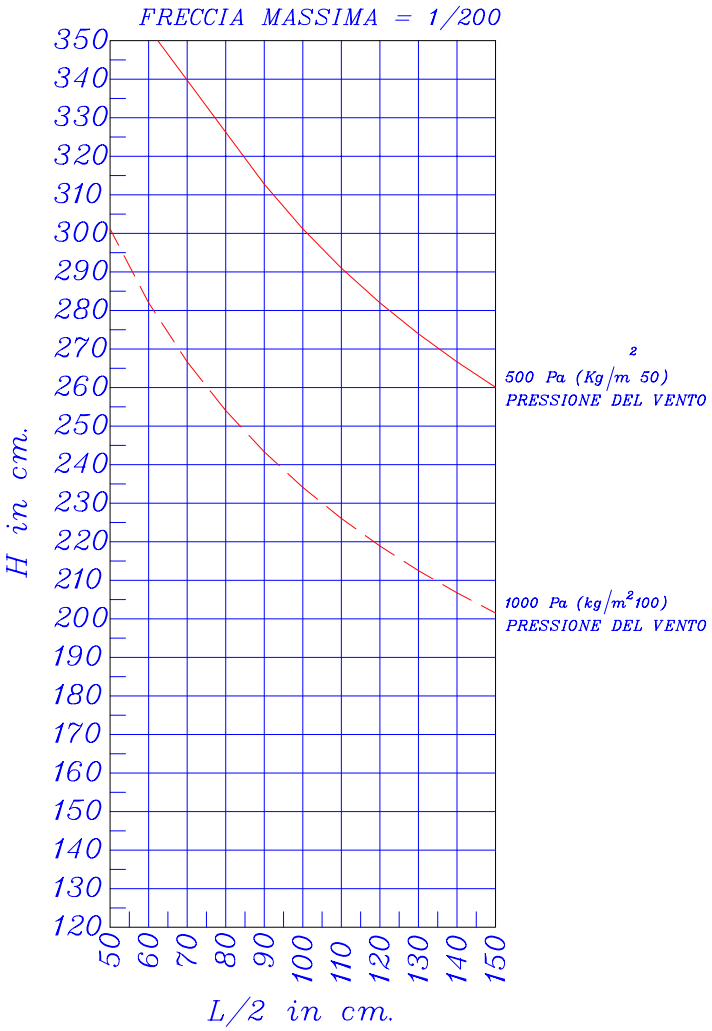
RIMEDI Ecco di seguito dei consigli pratici per evitala o ridurre : .. Non asciugare la biancheria nell'appartamento; .. Chiudere le porte mentre si cucina; .. Limitare il numero di piante; .. Mantenere il giusto equilibrio tra temperatura ed umidità relativa.. Arieggiare in maniera corretta. Come si arieggia in maniera corretta? (La condensa che si posa sui vetri delle finestre è un segnale d'allarme). Un arieggiamento corretto consiste nell'aprire completamente le finestre 3-4 volte al giorno per 5 minuti, creando correnti d'aria. In questo modo si sostituisce l'aria interna umida con aria esterna secca. Quindi è opportuno aprire completamente due o più finestre\balconi contrapposti per 5 minuti e non tenere un singolo spiraglio aperto per ore; si e' riscontrato che 5 minuti di apertura con creazione di corrente d'aria abbassano notevolmente il livello di umidità relativa (dal 75 % al 52%), portando un lieve abbassamento della temperatura .
-Una corretta ventilazione è il metodo migliore per prevenire la condensa .

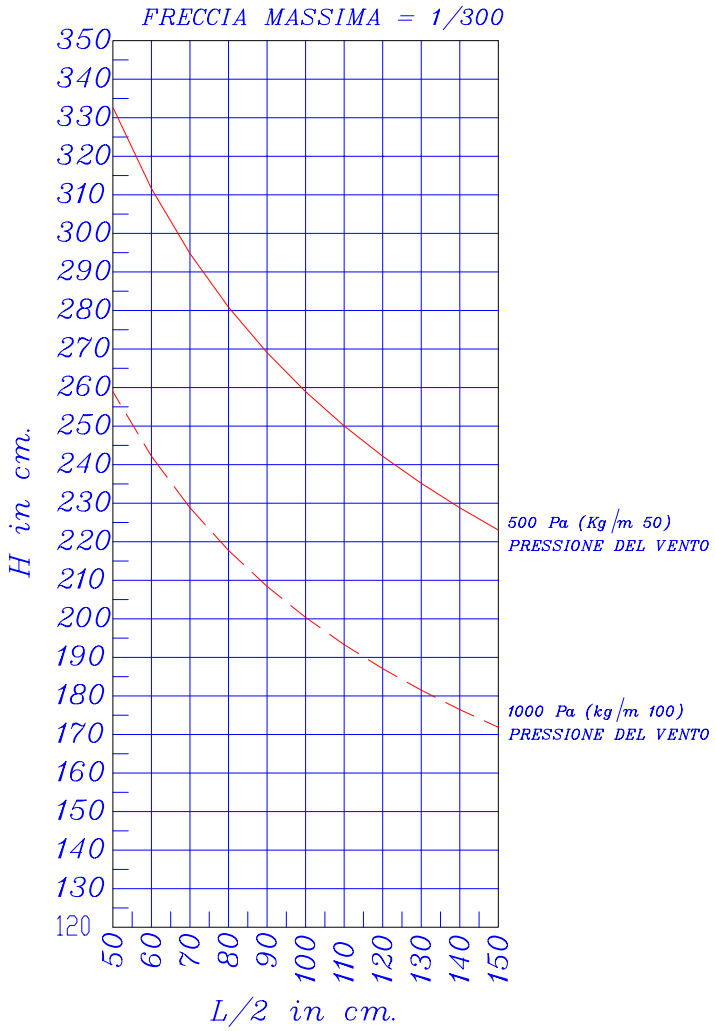
III Classificazione dei serramenti in base alle diverse aperture delle ante

FISSO	FINESTRA 1 ANTA	ANTA RIBALTA
		
FINESTRA 2 ANTE	**ANTA RIBALTA**	**FINESTRA 3 ANTE**
		
VASISTAS	**BILICO ORIZZONTALE**	**SCORREVOLE IN PARALLELO**
		

N.B. NON REALIZZARE FINESTRE CON ANTE DI LARGHEZZA INFERIORE A L= 450 mm

IV LIMITI DI IMPIEGO

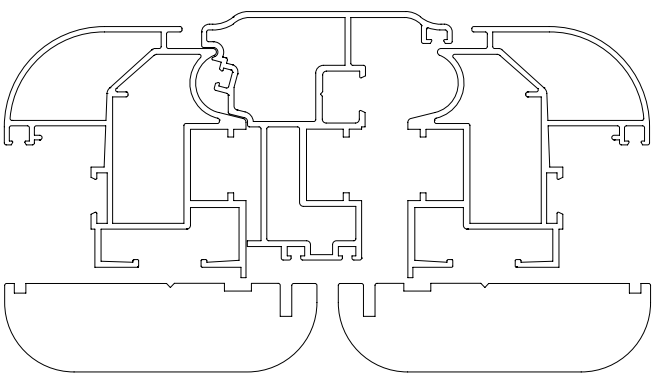


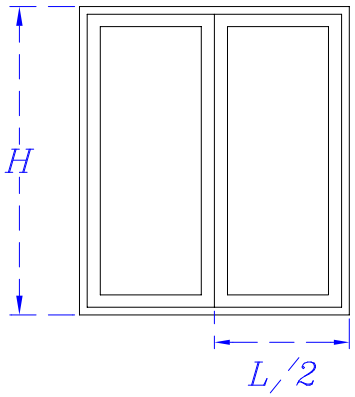


NW 293	
Jx	Jy
18,8	16,2

NW 94	
Jx	Jy
22	10

NW 293	
Jx	Jy
18,8	16,2



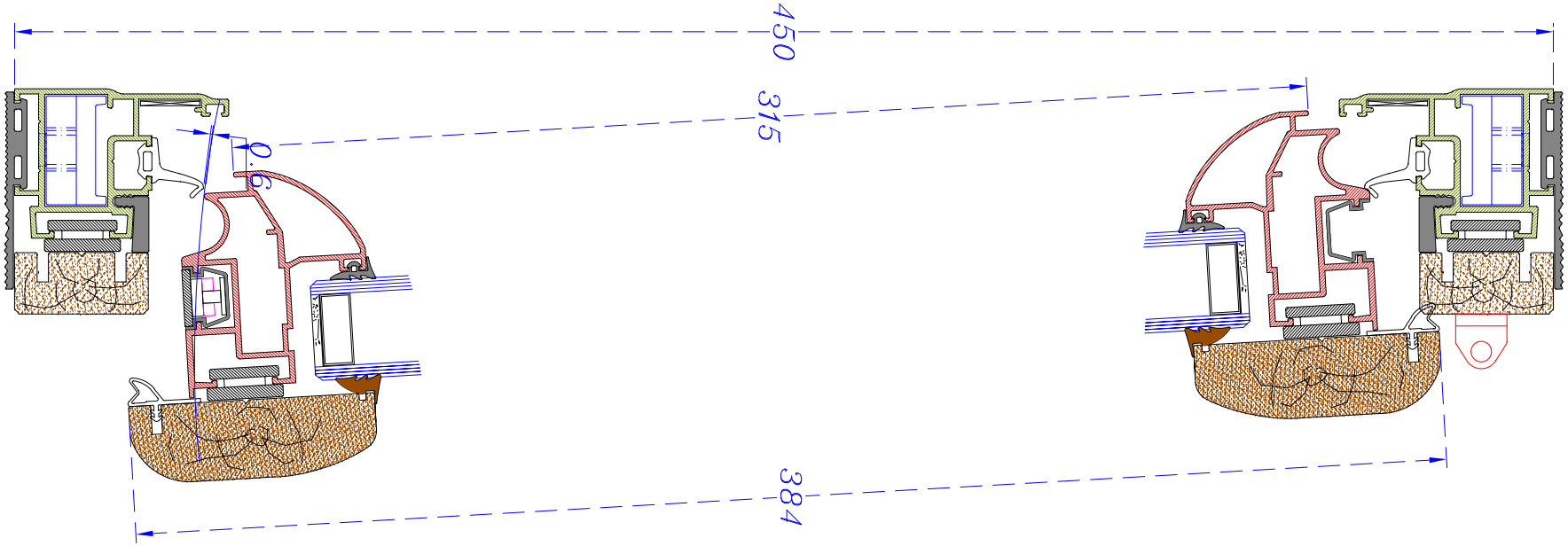


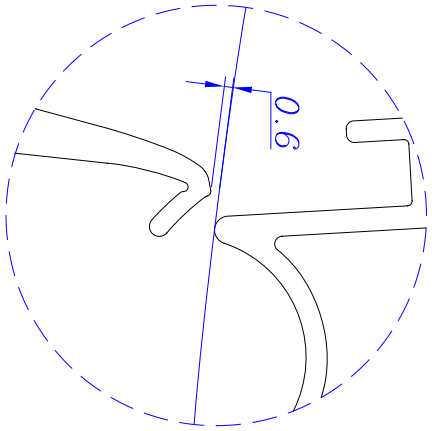
VERIFICARE CHE LA FRECCIA DEL PROFILATO SIA COMPATIBILE CON IL VETRO IMPIEGATO

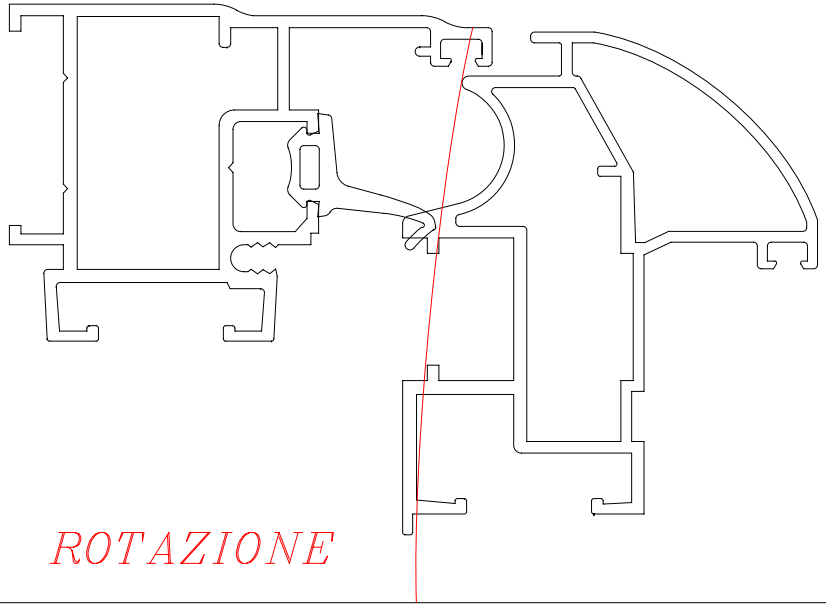
LEGNO NON CALCOLATO

NOVAL SYSTEM s.r.l.

LIMITE DIMENSIONAMENTO ANTE







Bodega G. & C. S.p.a.
Via Marianna, 14 24034 Cisano Bergamasco
Tel.035/438211 Fax 035/4382300

AZIENDA CON SISTEMA QUALITA'
CERTIFICATO DA DNV
=UNI EN ISO 9001/2000=

BODEGA italy DIN 1746-1 ALLG 50.5 DIN 1746-2 ALLEGATI 1 DIN 17811 LGA

S5/PRO14
REV 1
07/05

UNI EN 10204 2.2

ISPECTION CERTFICATE
CERTIFICATO DI COLLAUDO
ABNAHMEEPRUEFZEUGNIS

N° 200600463

Customer/Cliente/Besteller 001873 **NOVAL SYSTEM S.R.L.**

Order Confirmation 1/ Conferma D'ordine Auftragsbestaeitigung	Customer Order Ordine Cliente Kunden Bestellung

Desscription Of Material
Descrizione Del Materiale Profili di alluminio TB PGR
Beschreibung Des Werkstoff

Specification Capitolato Spezifikation UNI EN 573-3 UNI EN 755-2	Alloy Lega Legierung EN AW- 6060	Temper Stato Zustand T6

Bolla N° del

Mechanical Characterics Meechanische Eigenschaftenn
Caratteristiche Meccaniche

Provino Specimen Probestuek	R T.S. N/mm2	Rp (0,2) Y.S. N/mm2	A ELONG %	HB
T	>215	> 160	>8	>60

Chemical Composition Chemische Zusammennsetzung
Composizione Chimica

CAST COLATA GUSS	Si%	Fe%	Cu%	Mn%	Mg%	Cr%	Ni%	Zn%	Ti%	V%	Pb%
	0.30-0.60	0.10-0.30	<=0.10	<=0.10	0.35-0.60	<=0.05	.....	<00.15	<=0.10	.....	.....

DICHIARAZIONE DI CONFORMITA'

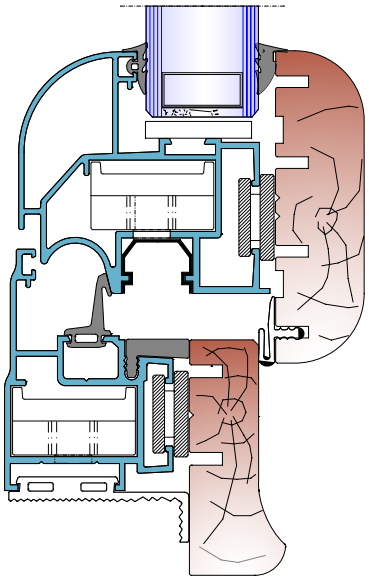
Si dichiara che il materiale sopra descritto e' stato controllato secondo nostro collaudo statistico e risulta conforme alle specifiche, disegni, norme, capitolati e/o campioni depositati.

ALTRE PROVE

Preparato da CQ.	Verificato da RSAQ.

Date Data Datum
24/01/2006

Caratteristiche tecniche



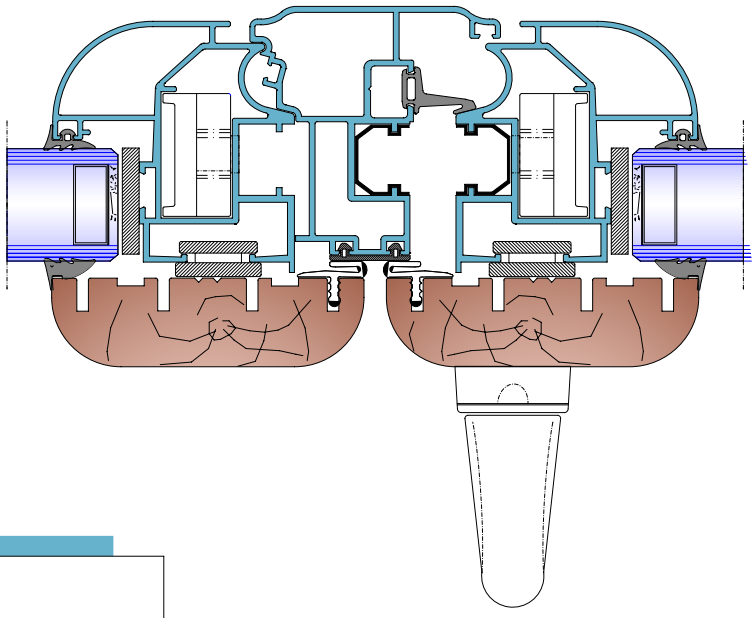
SISTEMA MISTO ALLUMINIO LEGNO
TIPO DI TENUTA A GIUNTO APERTO
SORMONTO INTERNO - COMPLANARE ESTERNO

DIMENSIONI BASE DEL SISTEMA

TELAIO FISSO MM. 66
TELAIO MOBILE MM. 85
SORMONTO LATERALE MM. 6,5
FUGA NODO CENTRALE MM. 5
FUGA PROFILI ESTERNI MM. 5
ALETTA VETRO MM. 23
ALETTA MURO MM.18.5- 22 - 29 - 37.5

CARATTERISTICHE TECNICHE

ANCORAGGIO DEL LEGNO MEDIANTE BLOCCHETTI IN NYLON
O ISOLATORE CONTINUO IN POLIPROPILENE.
UTILIZZO DI FERRAMENTA A NASTRO CON REGOLAZIONE
TRIDIMENSIONALE,ISOLATA CON GUARNIZIONE IN PVC.
POSSIBILITA' DI FISSAGGIO DEL VETRO CON UTILIZZO DI PROFILO IN ALLUMINIO A TENUTA MECCANICA.
FISSAGGIO AI CONTROTELAI CON VITI NON AVISTA.



PROVE DI LABORATORIO ITC

0970-CPD-RP0634

ESEGUITE SU PORTA FINESTRA 2 ANTE, DI CUI UNA A BATTENTE E L'ALTRA OSCILL.
CON DIMENSIONE L. 1350 H. 2350

PERMEABILITA' ALL' ARIA	*4*
TENUTA ALL' ACQUA	*E1050*
TENUTA AL VENTO	*C4*

REQUISITI DELLA PRESTAZIONE ENERGETICA DEGLI EDIFICI

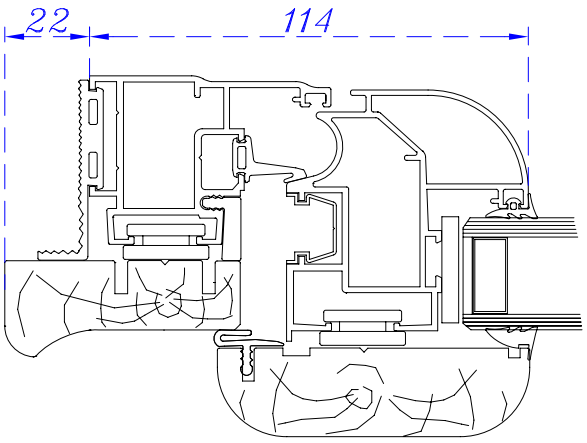
TABELLA 4A. VALORI LIMITE DELLA TRASMITTANZA U DELLE CHIUSURE TRASPARENTI CONPRENSIVA DEGLI INFISSI ESPRESSA IN W/m²K				
ZONA CLIMATICA	DALL' 01/01/2006 U (W/m²K)	DALL' 01/01/2008 U (W/m²K)	DALL' 01/01/2009 U (W/m²K)	DALL' 01/01/2010 U (W/m²K)
A	5,5	5,0	4,6	3,9
B	4,0	3,6	3,0	2,6
C	3,3	3,0	2,6	2,4
D	3,1	2,8	2,4	2,0
E	2,8	2,4	2,2	1,6
F	2,4	2,2	2,0	1,4

TABELLA 4B. VALORI LIMITE DELLA TRASMITTANZA U DEI VETRI ESPRESSA IN W/m²K			
ZONA CLIMATICA	DALL' 01/01/2006 U (W/m²K)	DALL' 01/01/2008 U (W/m²K)	DALL' 01/01/2009 U (W/m²K)
A	5,0	4,5	3,7
B	4,0	3,4	2,7
C	3,0	2,3	2,1
D	2,6	2,1	1,9
E	2,4	1,9	1,7
F	2,3	1,7	1,3

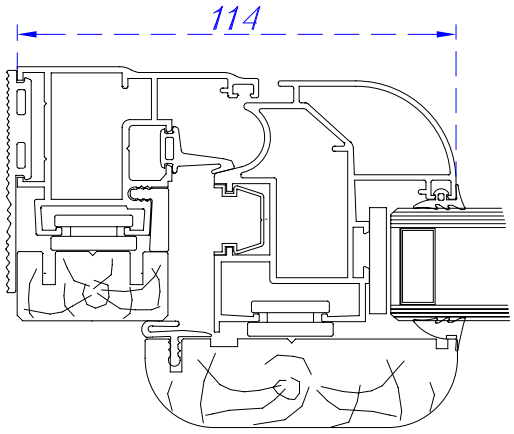
A	B	C	D	E	F
FINO 600 *GG	DA 601 A 900 GG	DA 901 A 1400 GG	DA 1401 A 2100 GG	DA 2101 A 3000 GG	OLTRE 3000 GG

(*GG) GRADI GIORNO

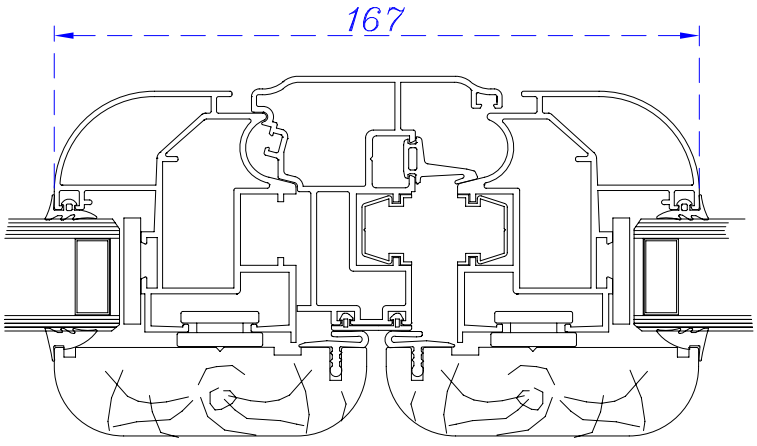
RAPPORTO DI PROVA 0970-CPD-RP0313 (ISTITTUTO ITC DI MILANO)



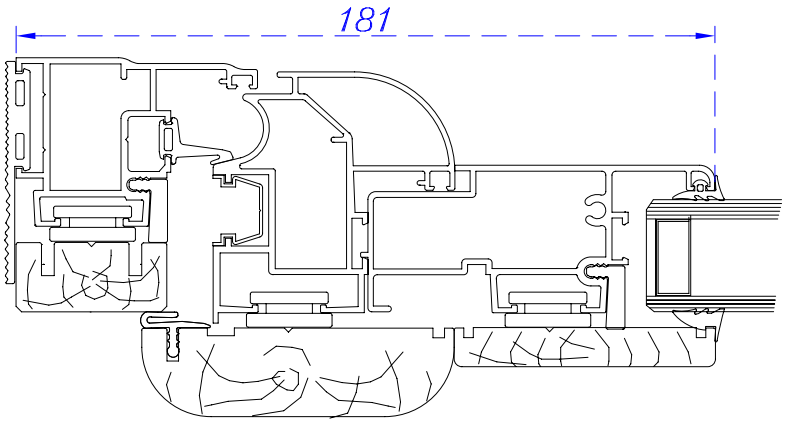
Uf=3,01 W/m²K



Uf=2,82 W/m²K

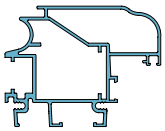
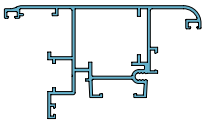
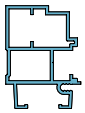
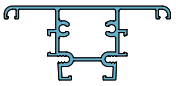
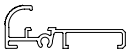
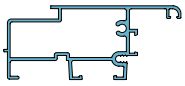
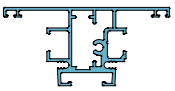


Uf=2,60 W/m²K

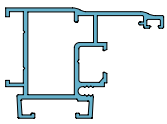
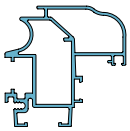
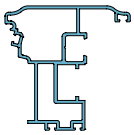
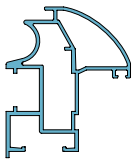
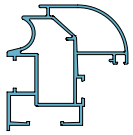


Uf=2,88 W/m²K

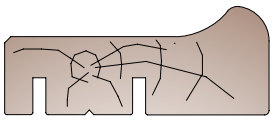
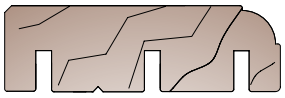
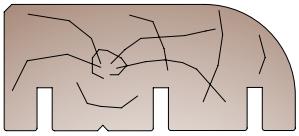
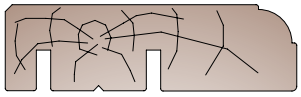
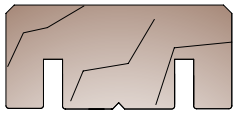
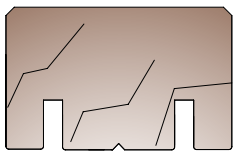
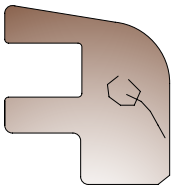
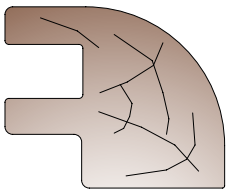
NOVAL SYSTEM s.r.l.

CODICE	SEZIONE	DESCRIZIONE	PESO gr/ml	Jx cm4	Jy cm4
NW 52	 pag.28	ANTA MAGGIORATA	1790	23.8	36
NW 53	 pag.30	ANTA BILICO	1576	18.5	37
NW 54	 pag.30	RIPORTO BILICO	1020	9.7	5.7
NW 77	 pag.31	"T" MOBILE	1113	6.7	17.2
NW 78	 pag.20	SOGLIA	611	8.3	0.7
NW 79	 pag.31	ZOCCOLO RIPORTATO	1221	7.3	28.9
NW 80	 pag.22	"T" PER FISSI	1313	8.9	16.2
NW 81	pag.22	SCATTO PER TELAIO MAGGIORATO	436	3.2	1.13

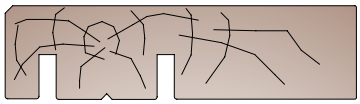
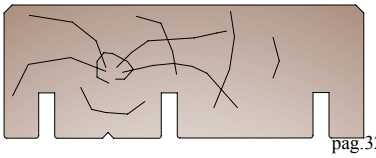
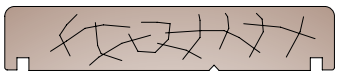
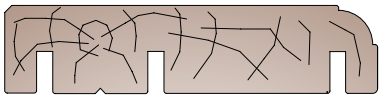
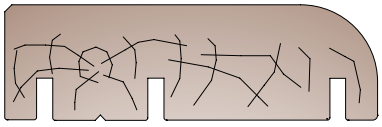
NOVAL SYSTEM s.r.l.

CODICE	SEZIONE	DESCRIZIONE	PESO gr/ml	Jx cm4	Jy cm4
NW 92	 pag.21	**TELAIO**	983	8.2	9.7
NW 93	 pag.23	**ANTA**	1345	18.6	16.7
NW 94	 pag.20	**RIPORTO**	1167	22	10
NW 95	pag.20	**FERMAVETRO**	287		
NW 96	 pag.27	**ANTA CAMERA PICCOLA**	1210	15	9.5
NW 293	 pag.25	**ANTA ARROTONDATA**	1400	18.8	16.2

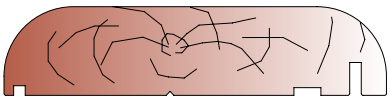
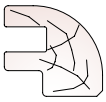
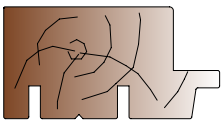
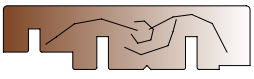
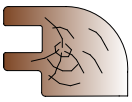
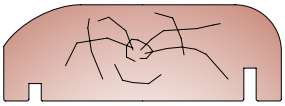
NOVAL SYSTEM s.r.l.

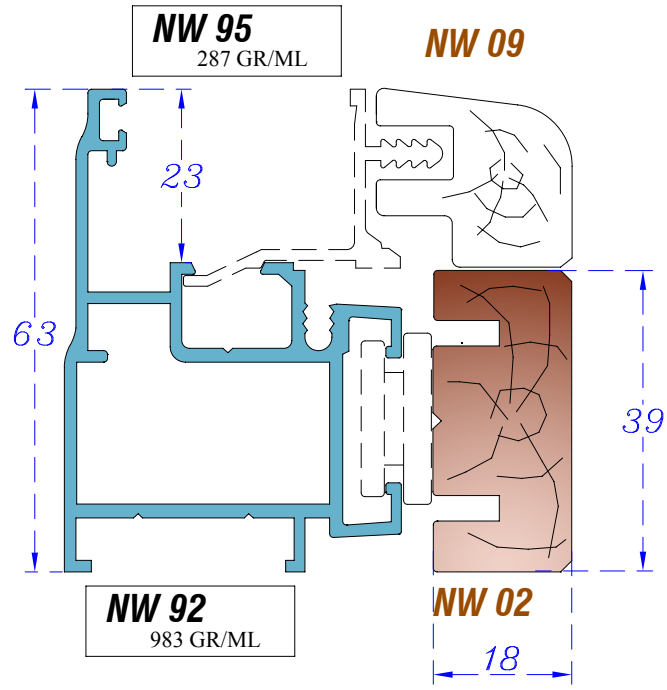
CODICE	SEZIONE	DESCRIZIONE
NW 00G	 pag.22	LEGNO TELAIO BATTUTA MM.22 LINEA GIOTTO
NW 01	 pag.21	LEGNO TELAIO BATTUTA MM.18.5 ANTA CON FERMAVETRO
NW 01G	 pag.24	LEGNO ANTA CON FERMAVETRO LINEA GIOTTO
NW 01L	 pag.22	LEGNO TELAIO BATTUTA MM.22
NW 02	 pag.21	LEGNO TELAIO AD "L" MONTANTE E TRAVERSI
NW 02G	 pag.32	LEGNO MONTANTE E TRAVERSI ANTA LINEA GIOTTO
NW 03	 pag.25	LEGNO FERMAVETRO PER APRIBILI
NW 03G	 pag.26	LEGNO FERMAVETRO PER APRIBILI LINEA GIOTTO

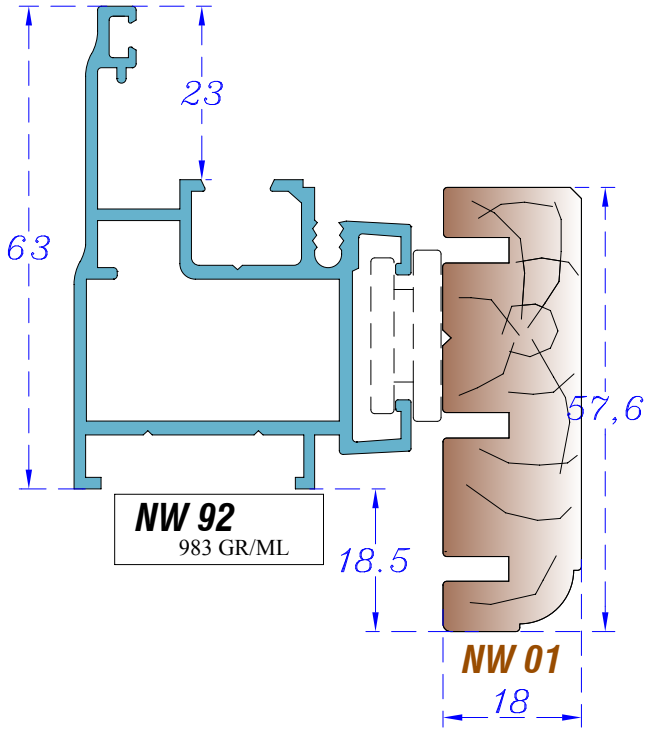
NOVAL SYSTEM s.r.l.

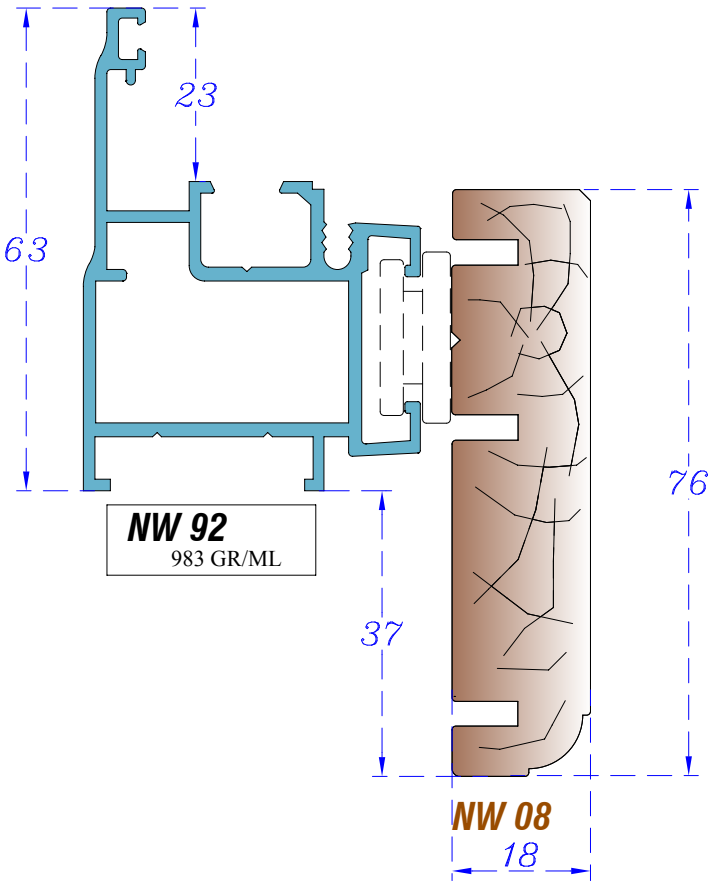
CODICE	SEZIONE	DESCRIZIONE
NW 04	pag.31	LEGNO TRAVERSO IFILARE
NW 05	pag.23	LEGNO ANTA INFILARE
NW 05G	pag.24	LEGNO ANTA INFILARE LINEA GIOTTO
NW 06	 pag.21	LEGNO TELAIO BATTUTA MM.28.5 ZOCCOLO RIPORTATO CON FERMAVETRO
NW 06G	 pag.32	LEGNO ZOCCOLO RIPORTATO CON FERMAVETRO LINEA GIOTTO
NW 07	 pag.31	LEGNO ZOCCOLO RIPORTATO INFILARE
NW 08	 pag.21	LEGNO TELAIO BATTUTA MM.37.5 ANTA MAGGIORATA CON FERMAVETRO
NW 08G	 pag.29	LEGNO ANTA MAGGIORATA CON FERMAVETRO LINEA GIOTTO

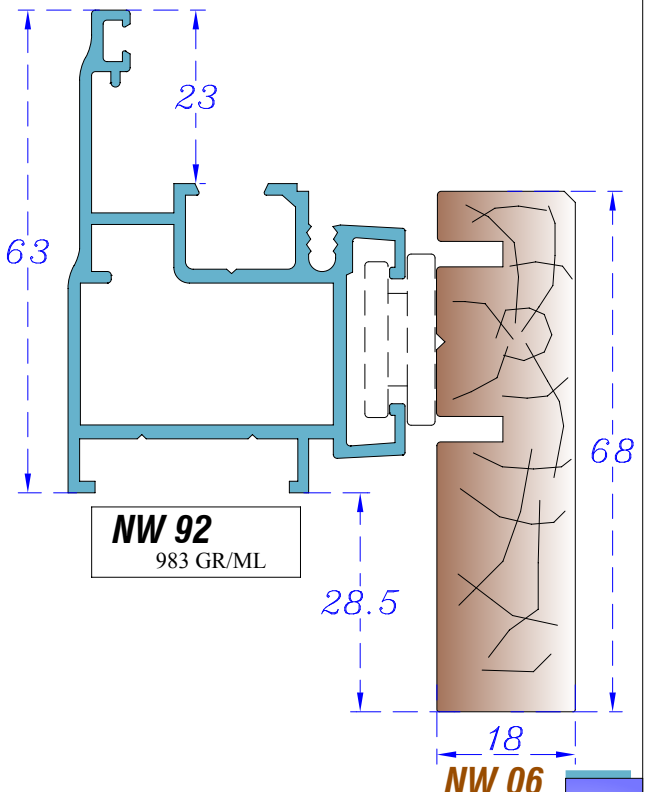
NOVAL SYSTEM s.r.l.

CODICE	SEZIONE	DESCRIZIONE
NW 08 I	pag.28	LEGNO ANTA MAGGIORATA INFILARE
NW 08 I G	 pag.29	LEGNO ANTA MAGGIORATA ARROTONDATA INFILARE
NW 09	pag.21	LEGNO FERMAVETRO PER FISSI
NW 09G	 pag.22	LEGNO FERMAVETRO PER FISSI LINEA GIOTTO
NW 10	 pag.30	LEGNO ANTA BILICO
NW 11	 pag.30	LEGNO RIPORTO BILICO
NW 12	 pag.32	LEGNO FERMAVETRO BILICO
NW 13	 pag.27	LEGNO ANTA RIBASSATA


NW 95
287 GR/ML
NW 09
23
63
39
NW 92
983 GR/ML
NW 02
18


23
63
57,6
NW 92
983 GR/ML
18.5
NW 01
18


23
63
76
NW 92
983 GR/ML
37
NW 08
18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NW 92
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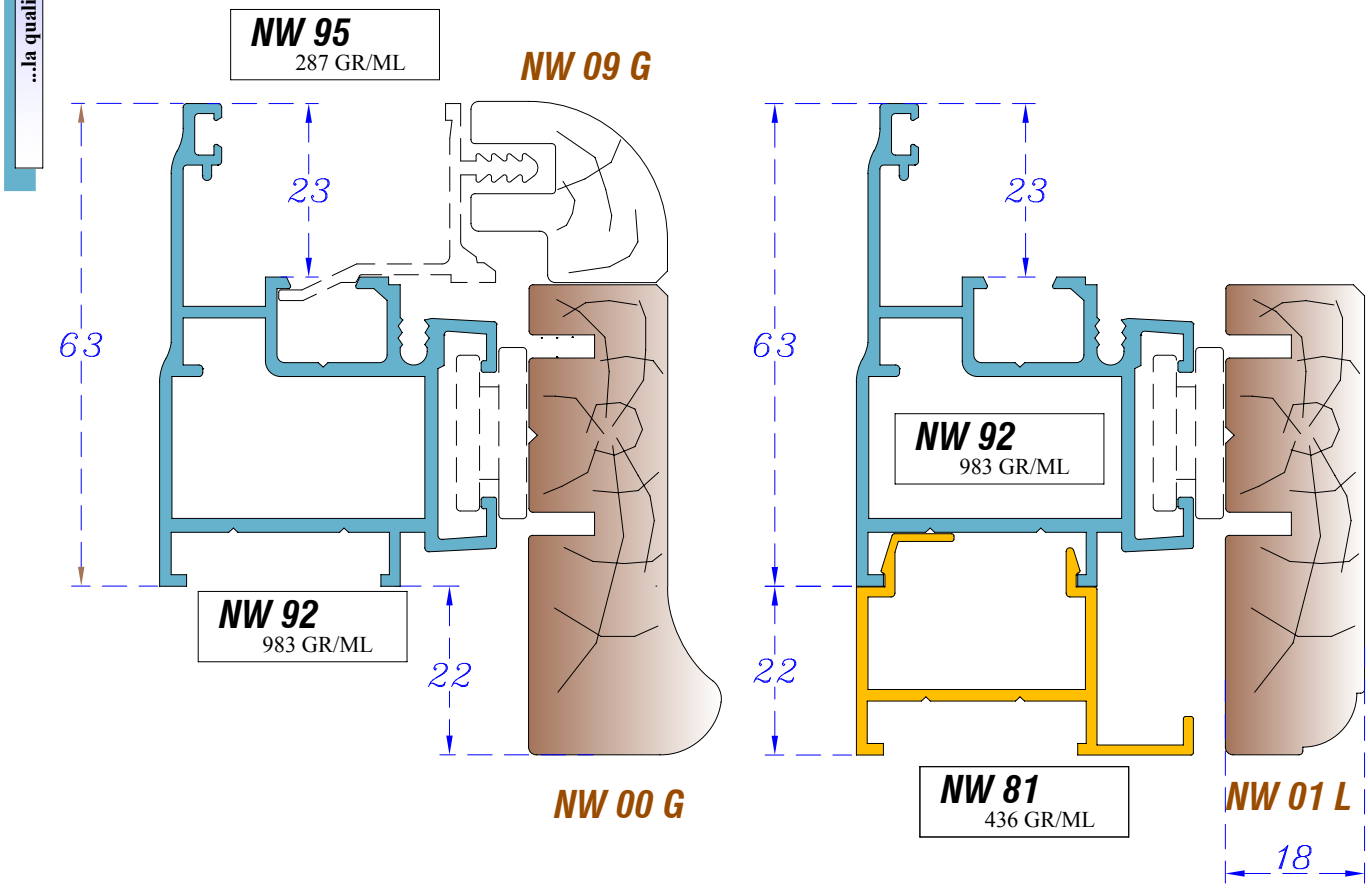
28.5
18
NW 06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287 GR/ML
NW 09 G
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NW 92
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22
NW 00 G
23
63
NW 92
983 GR/ML
22
NW 81
436 GR/ML
NW 01 L
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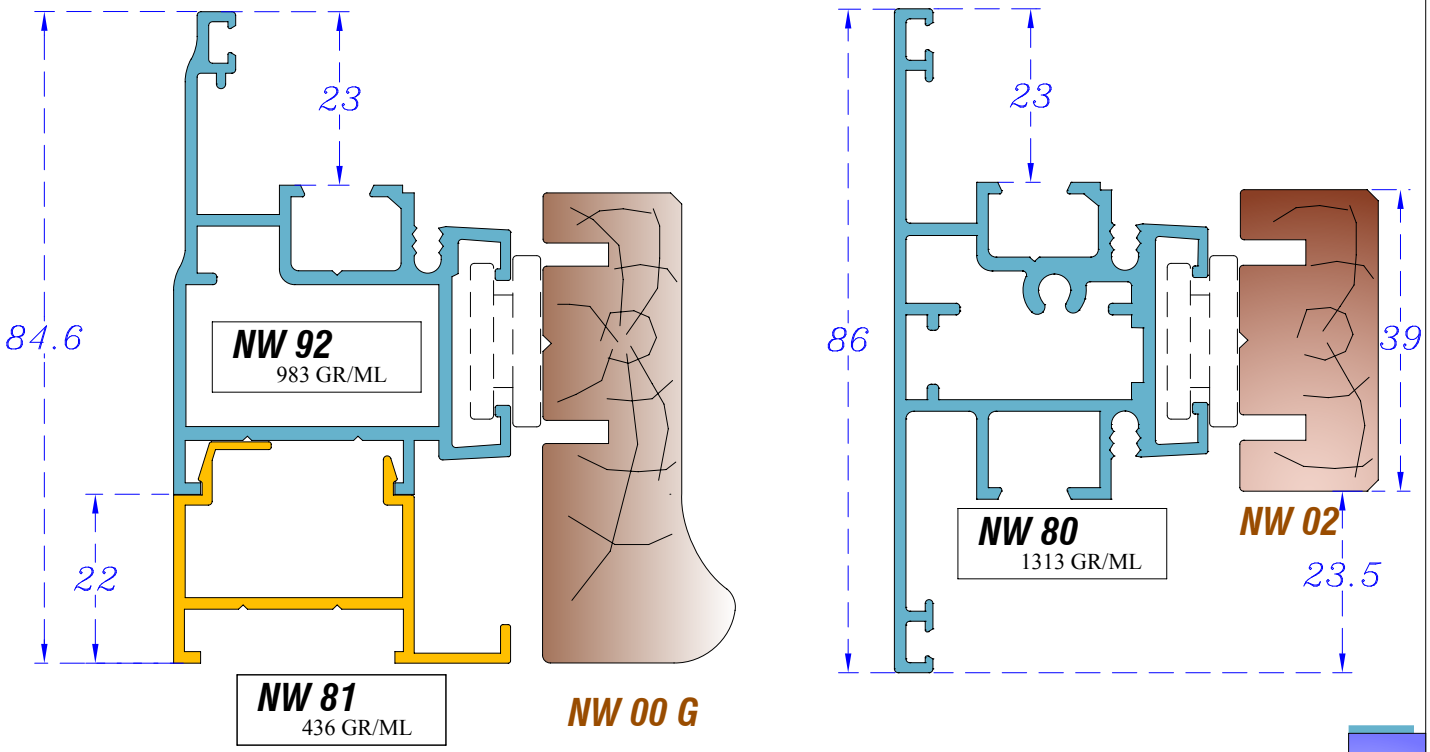
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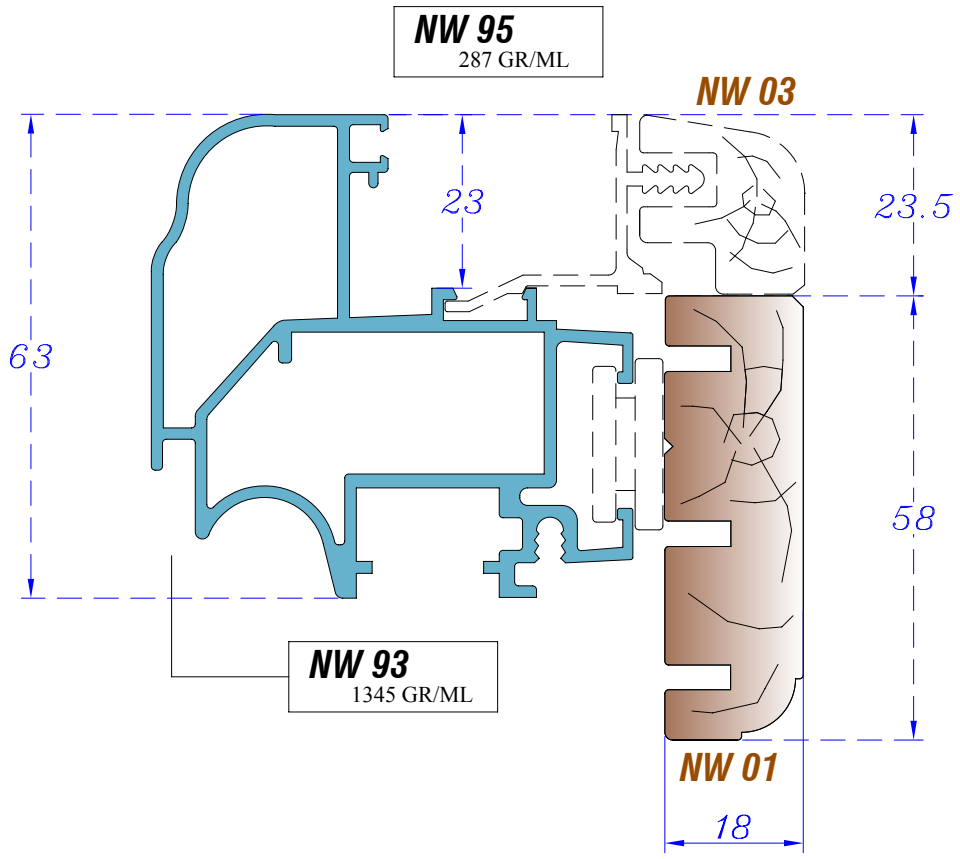
23.5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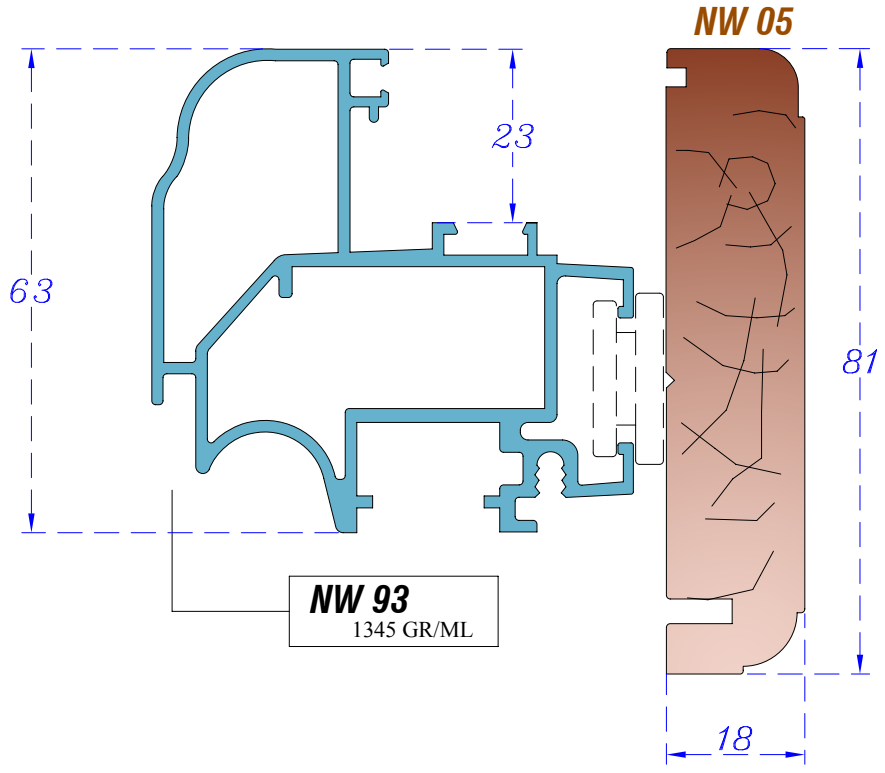
23
23.5
63
58
NW 93
1345 GR/ML
NW 01
18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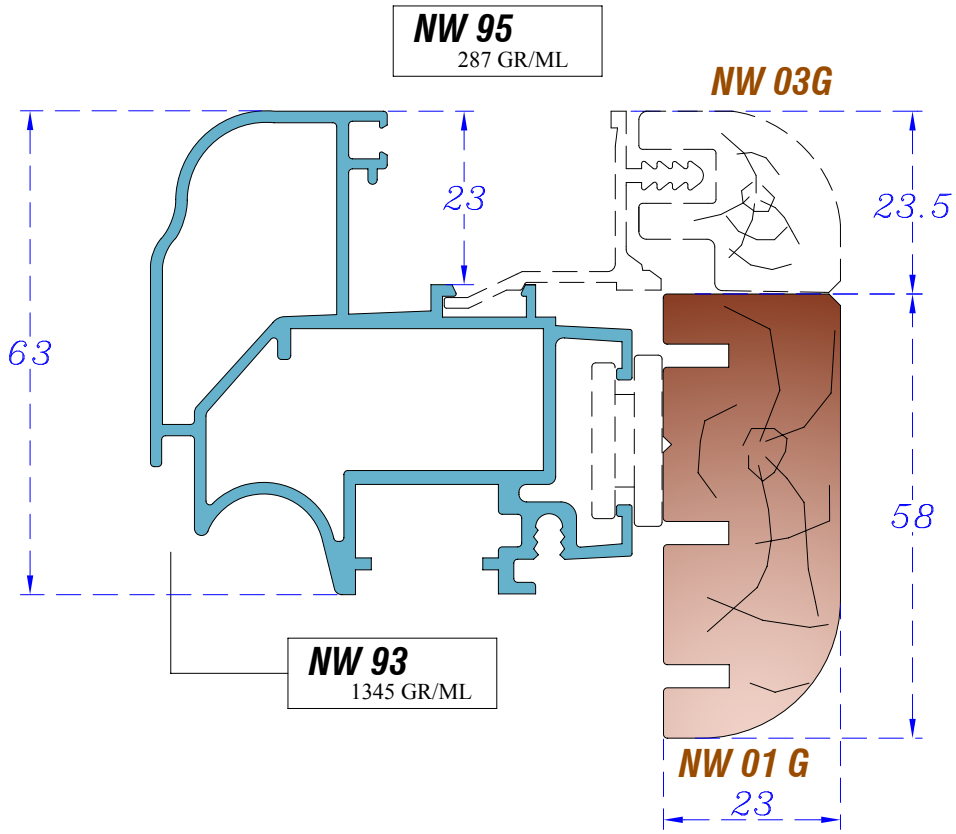
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1345 GR/ML
NW 01 G
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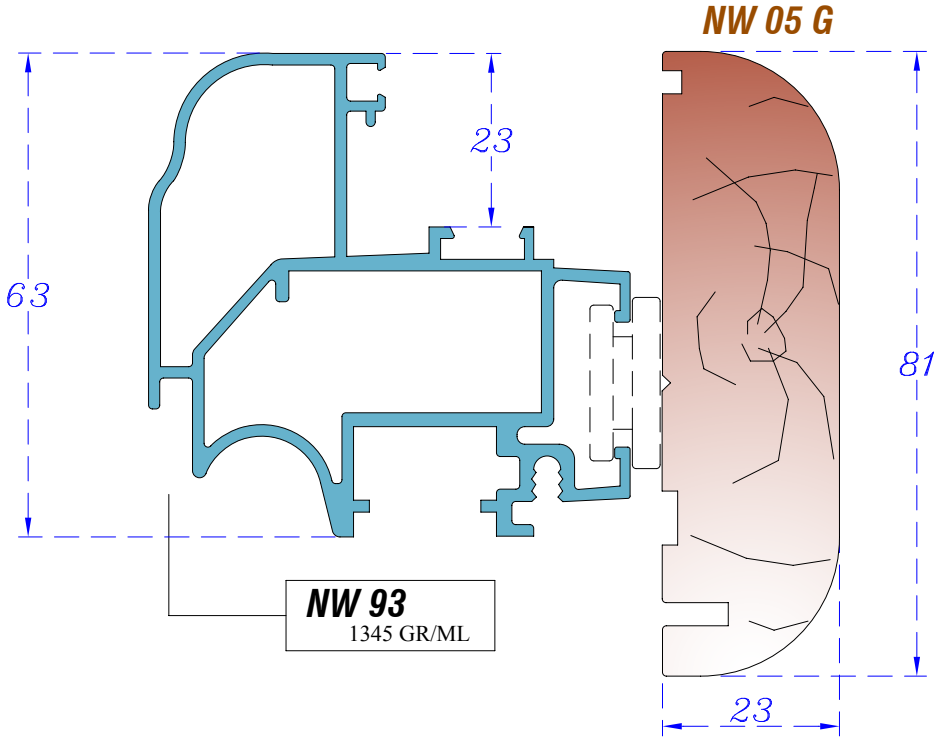
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81
NW 93
1345 GR/ML
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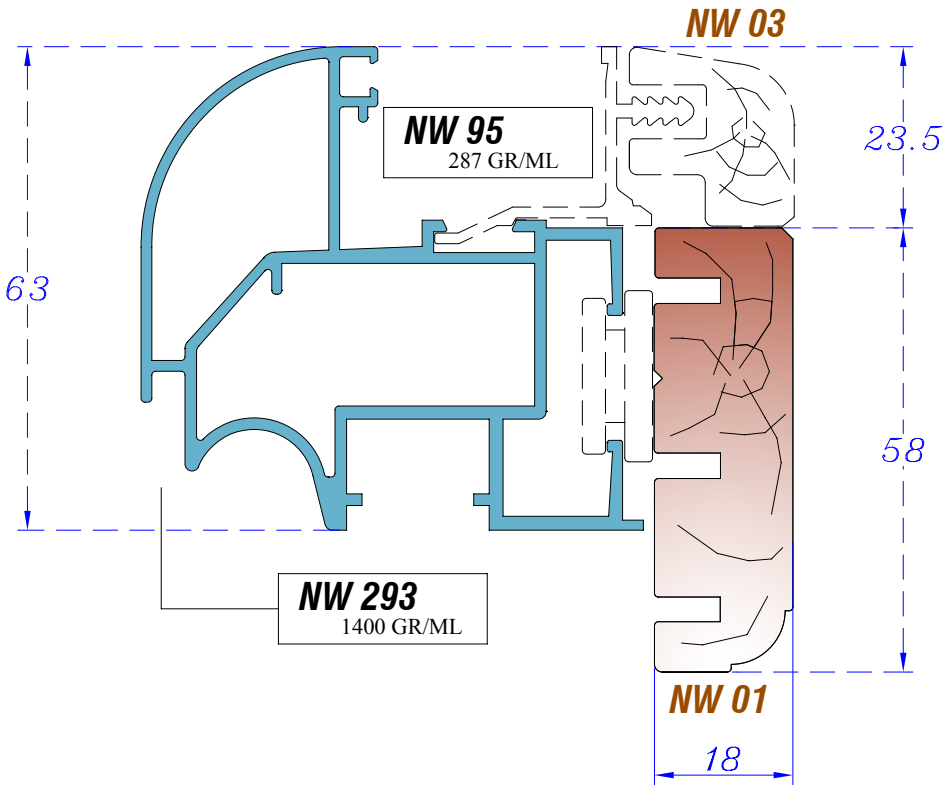
NW 03
NW 95
287 GR/ML
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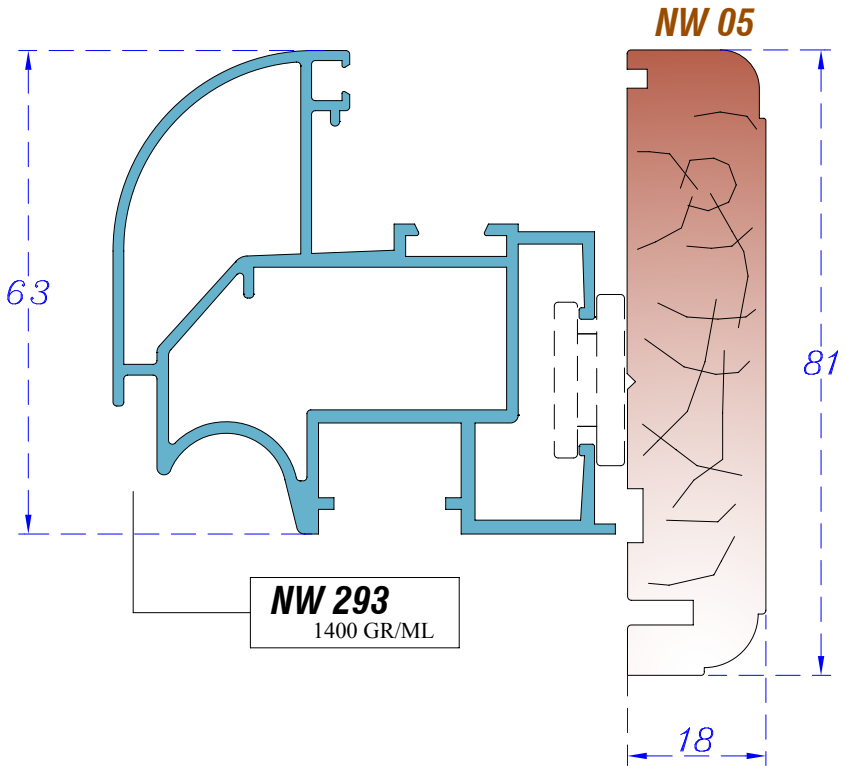
63
58
NW 293
1400 GR/ML
NW 01
18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81
NW 293
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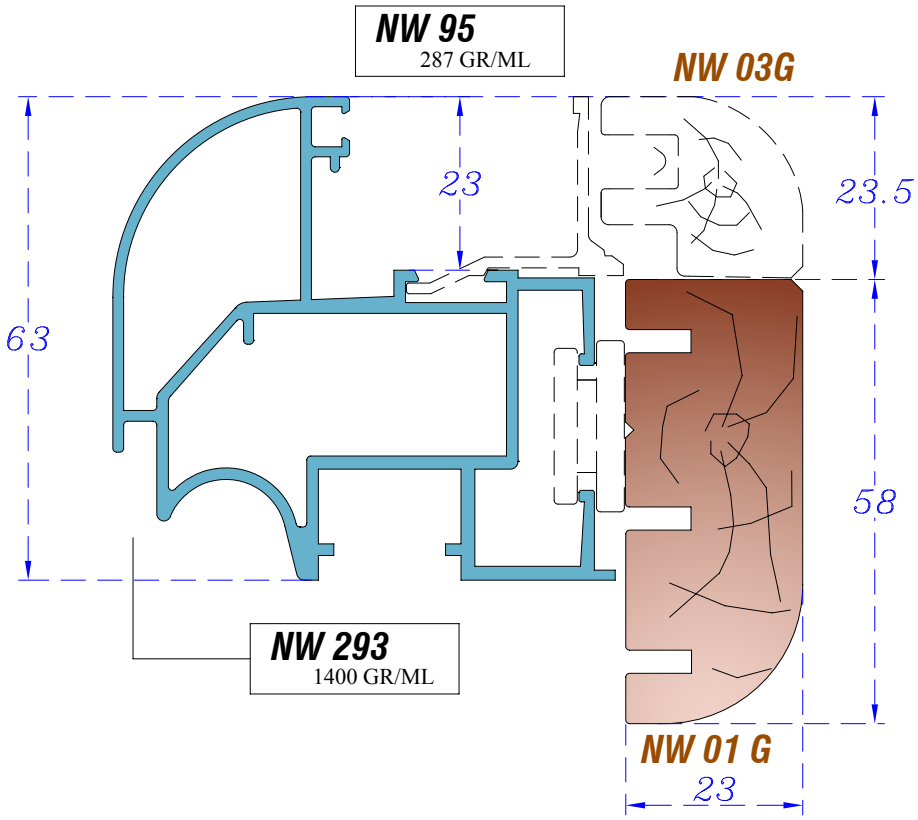
NW 95
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NW 03G
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23.5
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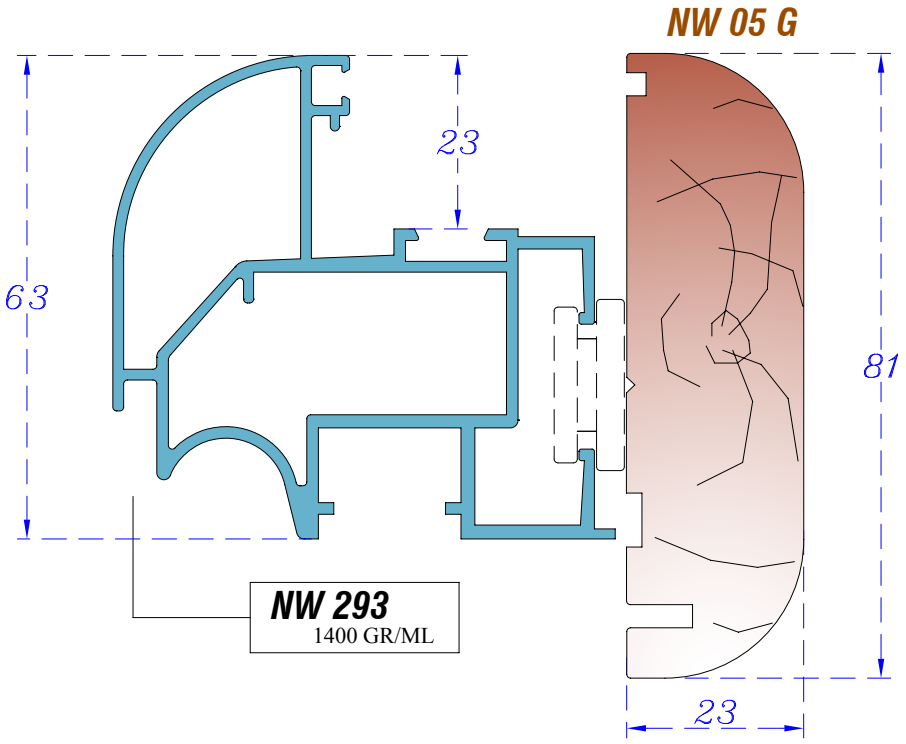
NW 293
1400 GR/ML
NW 01 G
23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81
NW 293
1400 GR/ML
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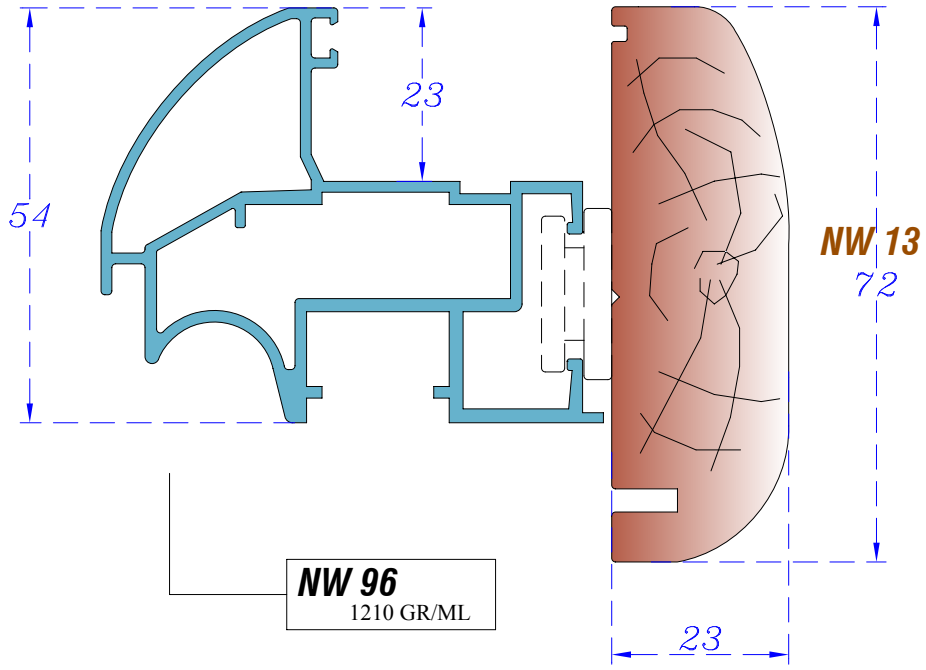
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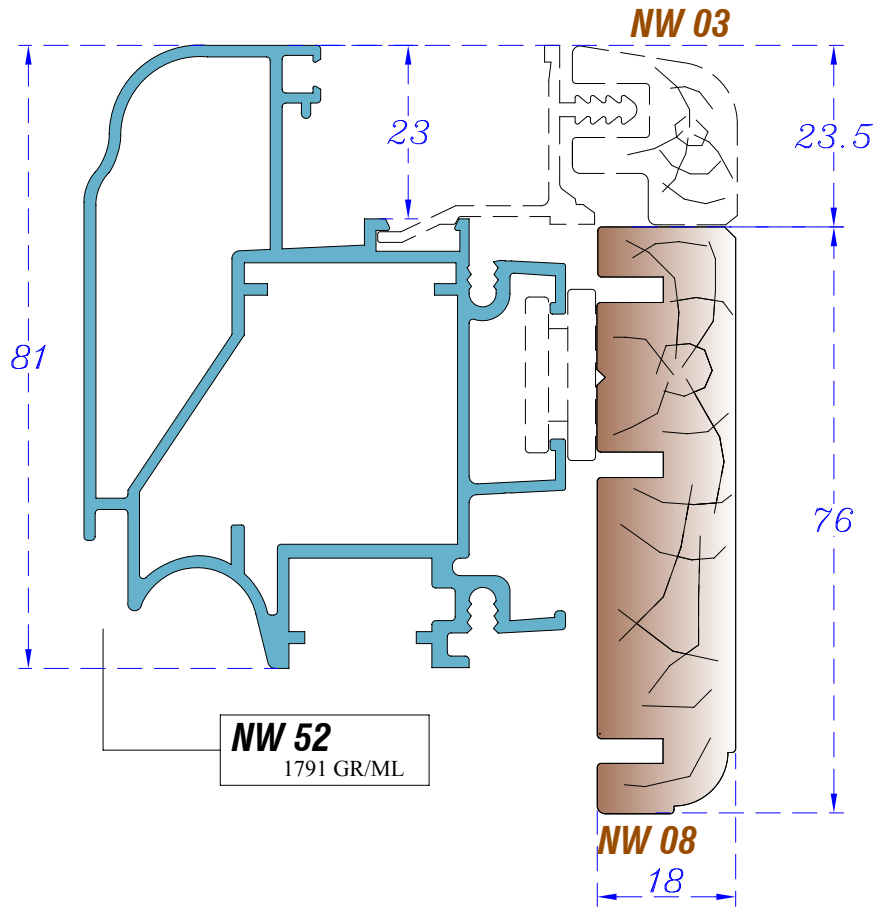
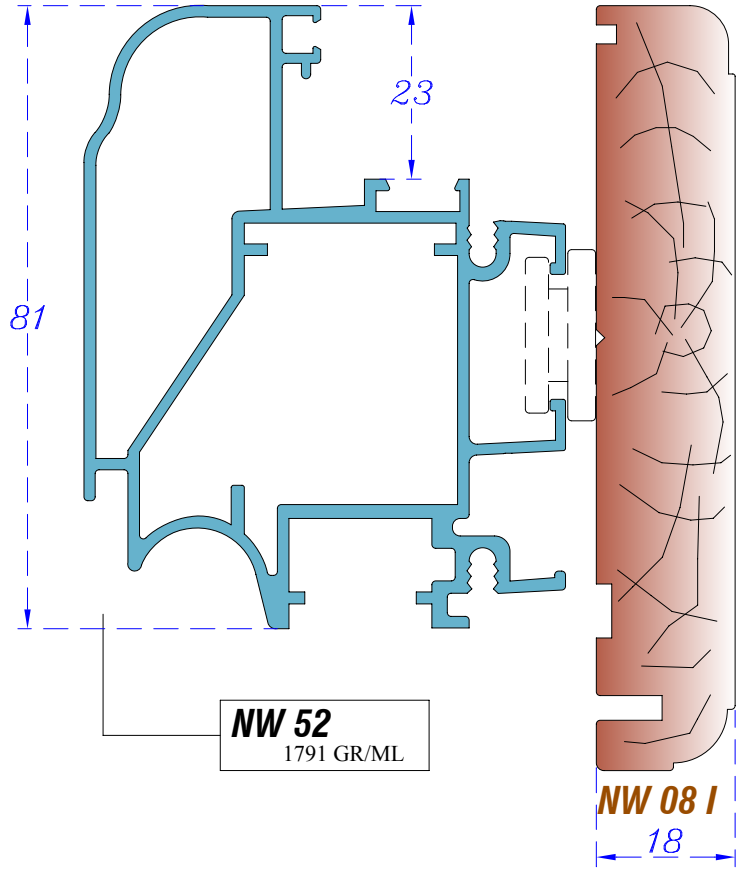
NW 96
1210 GR/ML
23


NW 03
23
23.5
81
76
NW 52
1791 GR/ML
NW 08
18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81
NW 52
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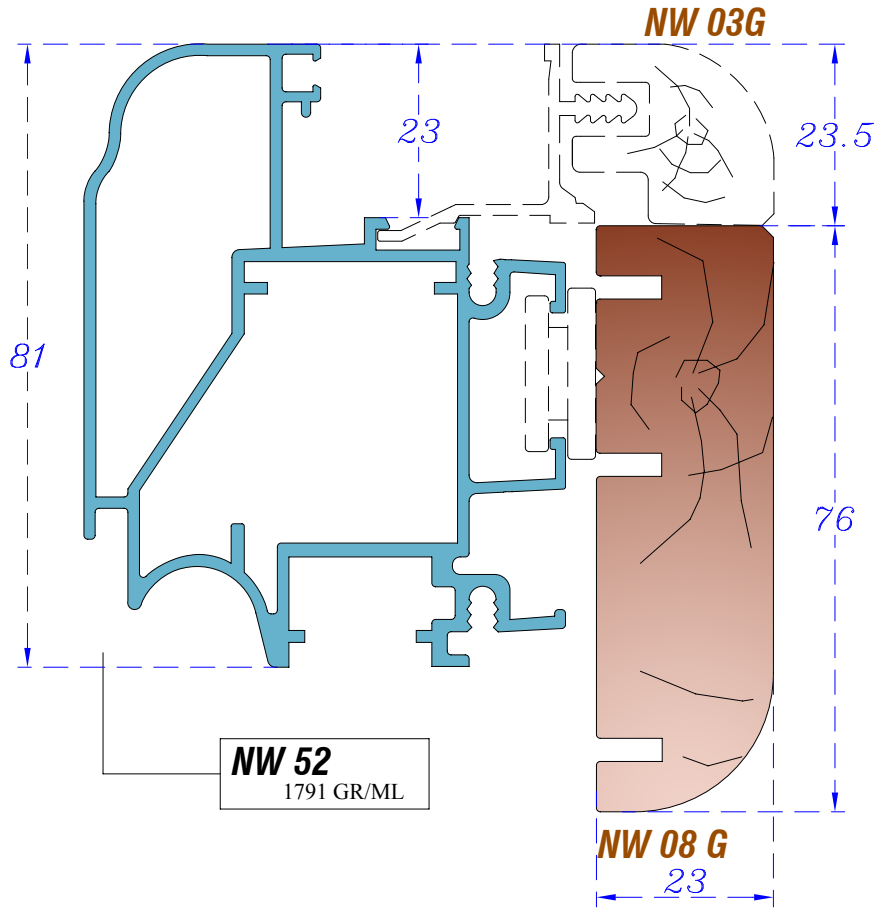
NW 08 I
18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23.5
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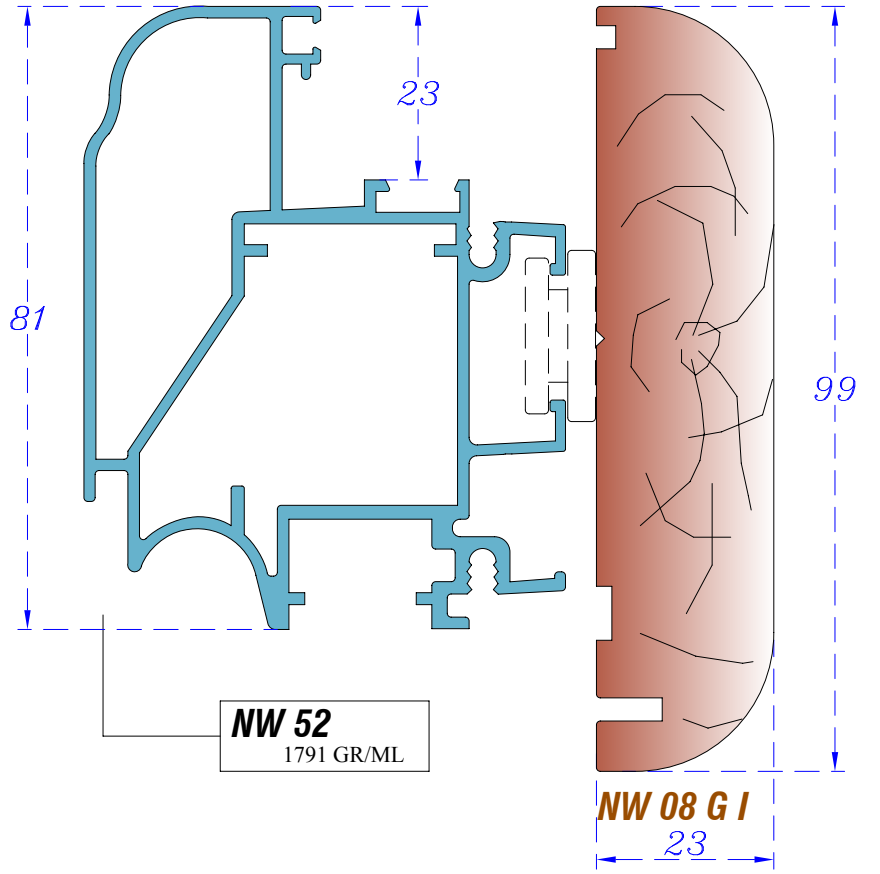
76
NW 52
1791 GR/ML
NW 08 G
23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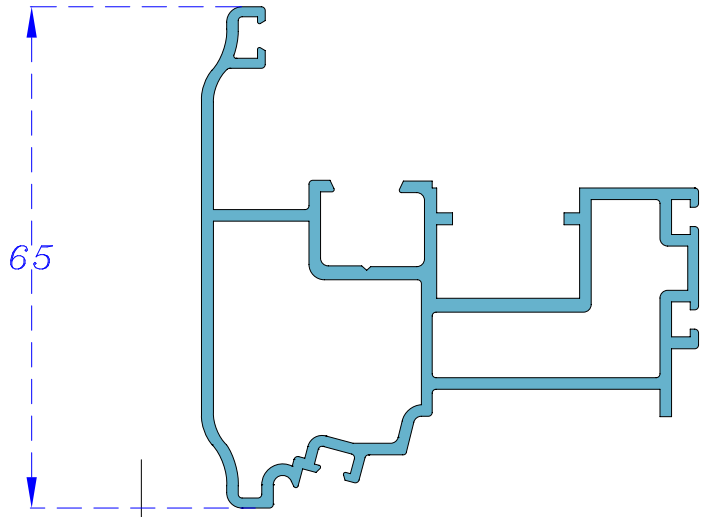
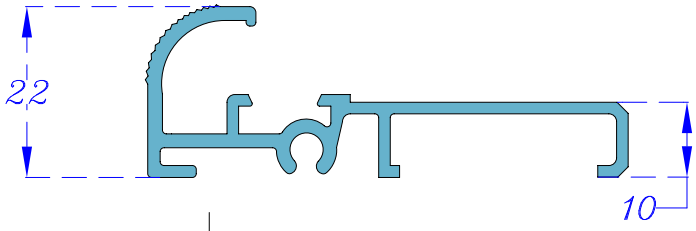
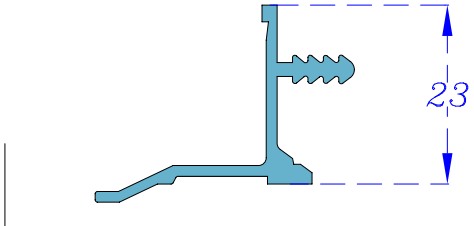
81
99
NW 52
1791 GR/ML
NW 08 G I
23



NW 94
1167 GR/ML

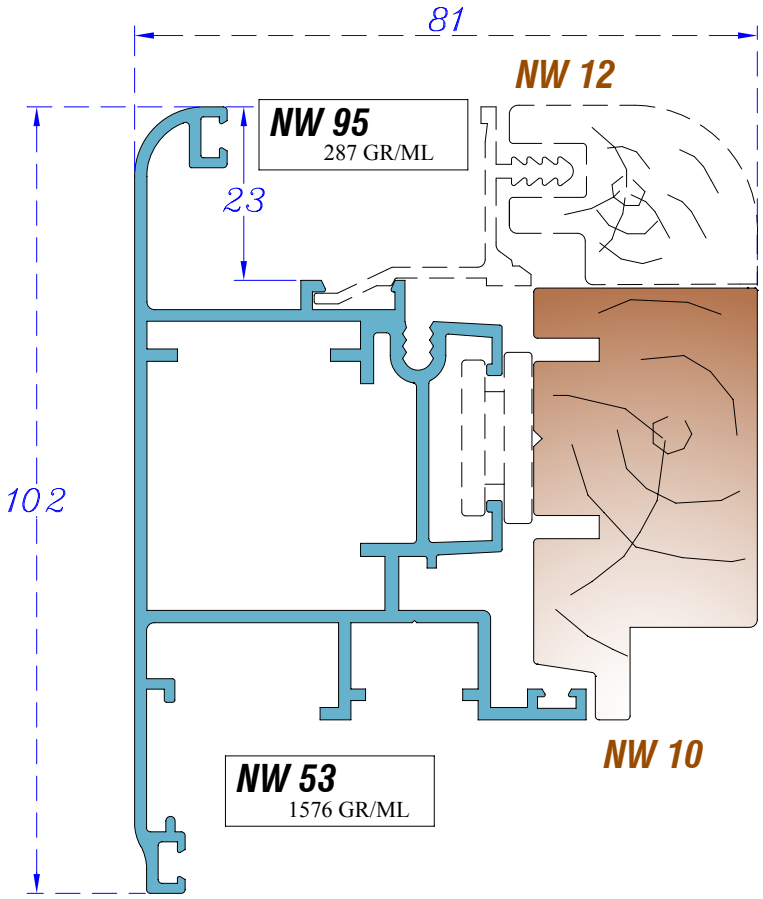


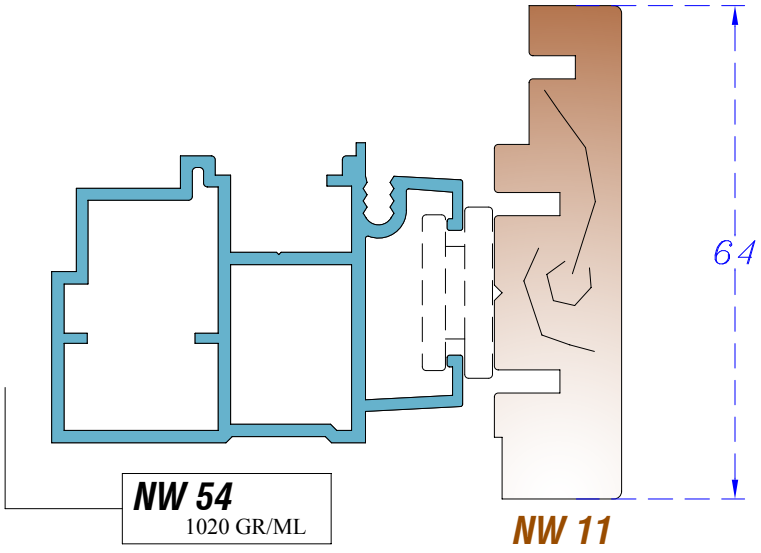
NW 78
611 GR/ML

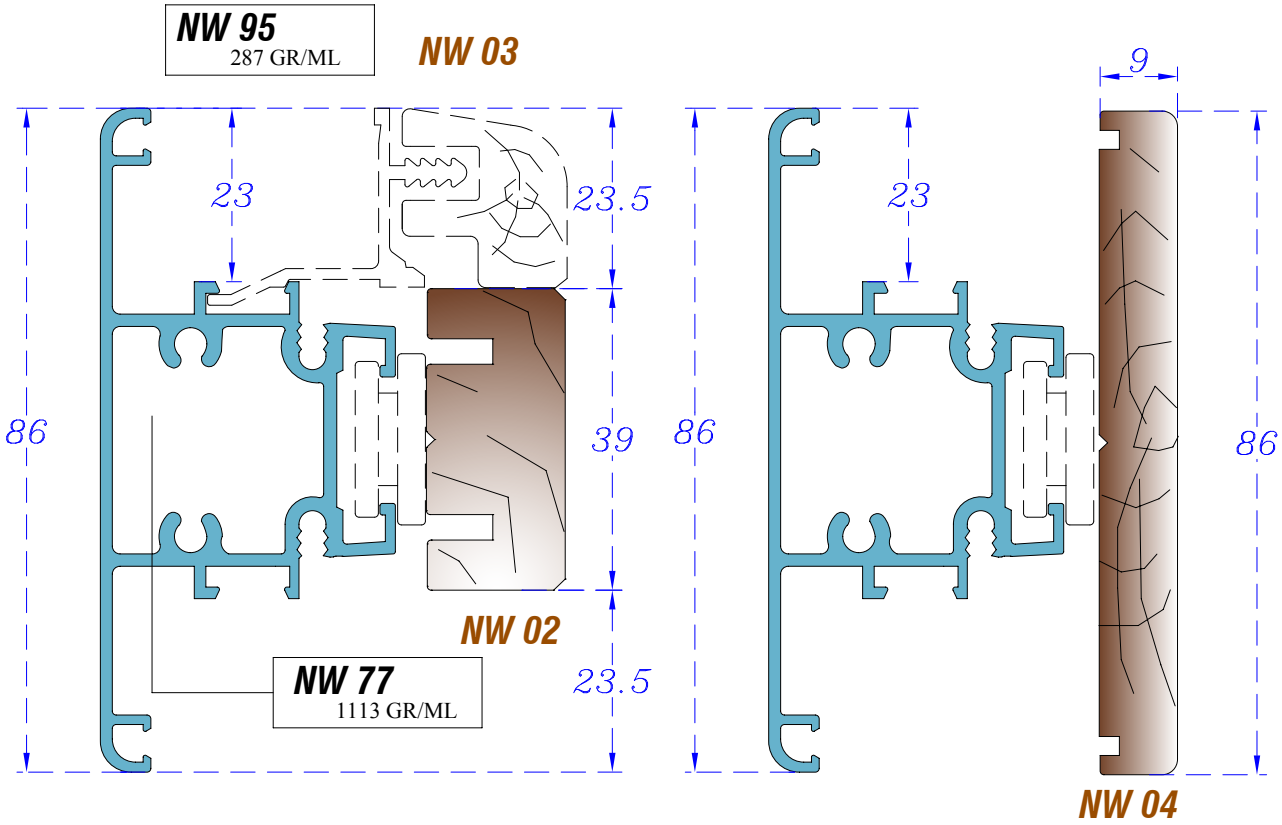


NW 95
287 GR/ML

PROFILI BILICO






NW 95
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86
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NW 02
NW 77
1113 GR/ML
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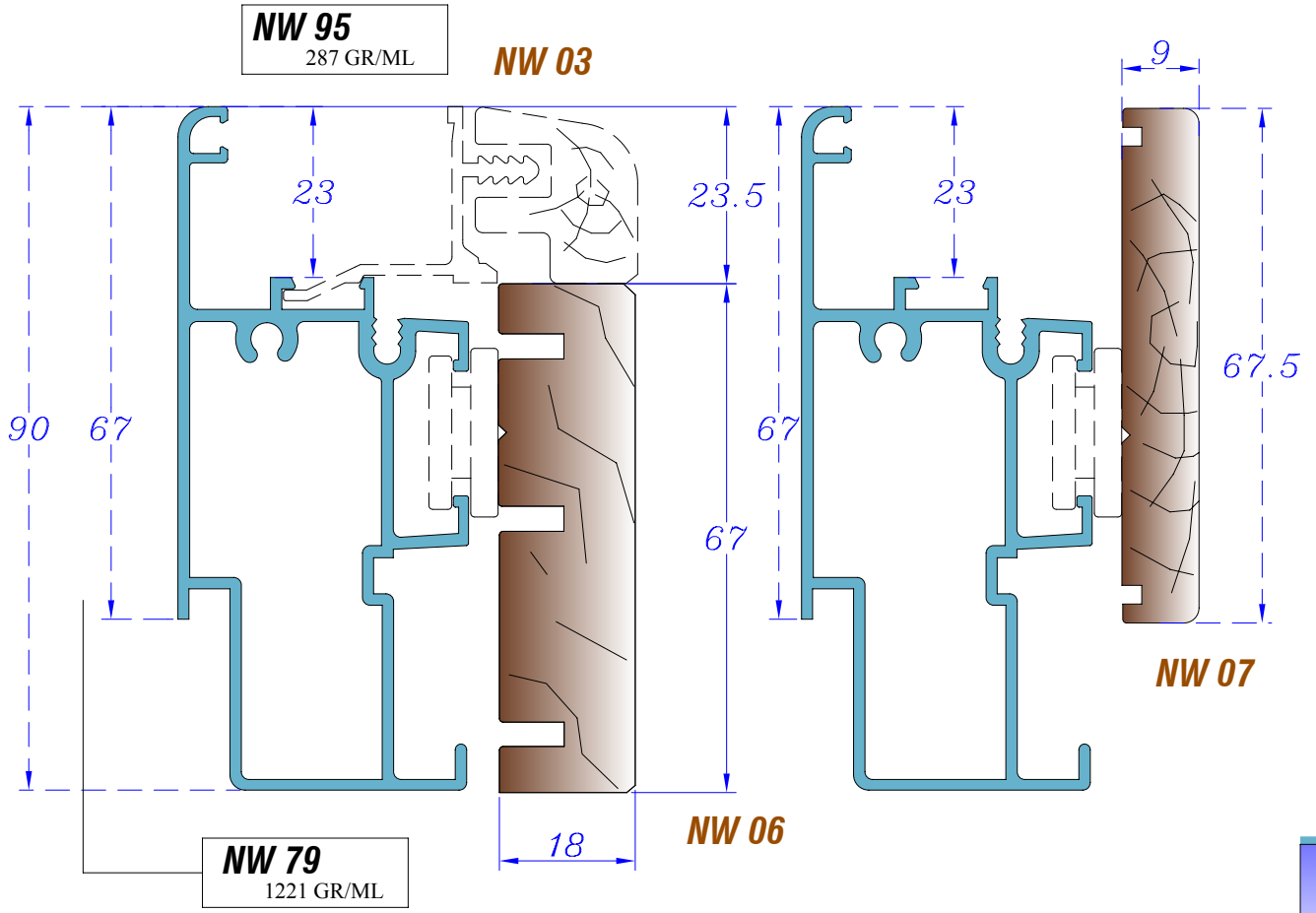
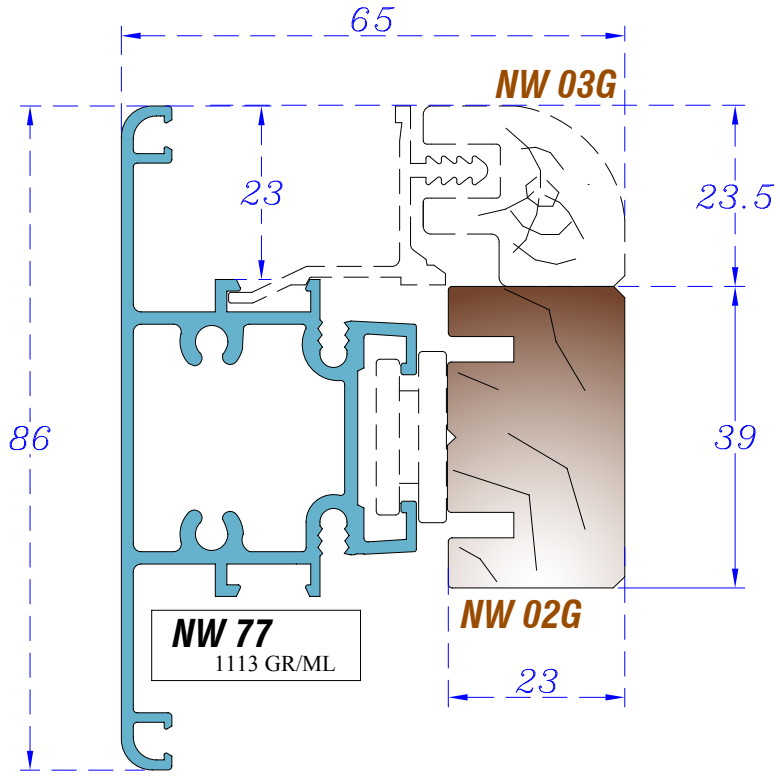
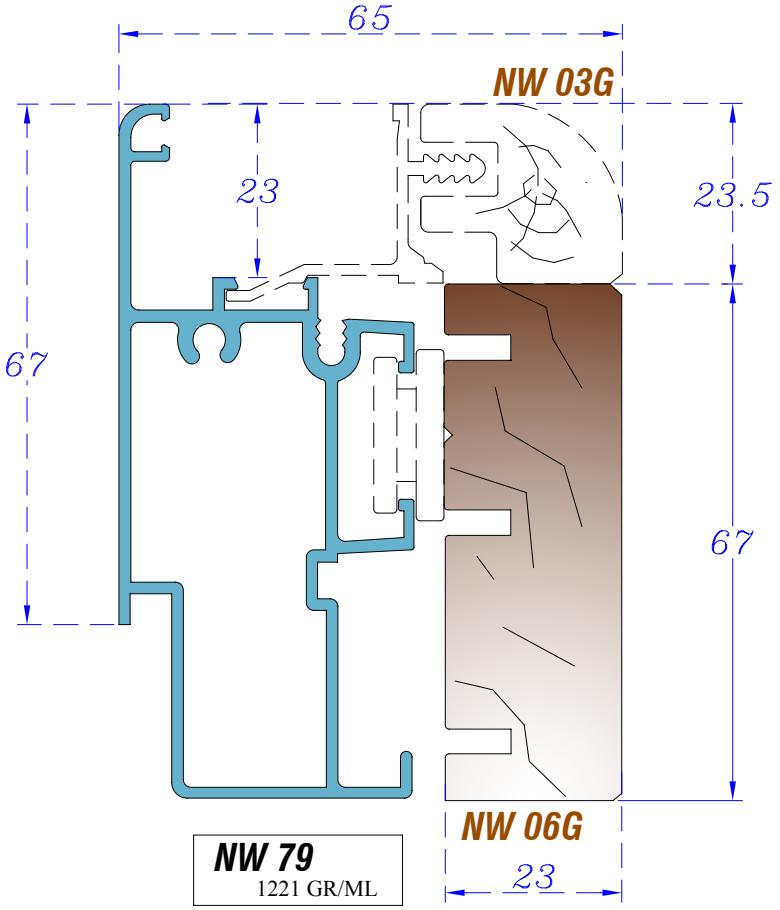
86
86
NW 04

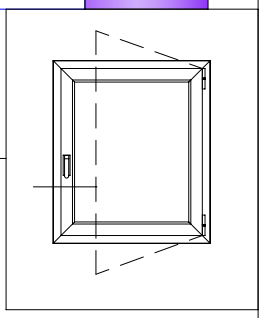

NW 95
287 GR/ML
NW 03
23
23.5
90
67
67
18
NW 06
NW 79
1221 GR/ML
9
23
67
67.5
NW 07

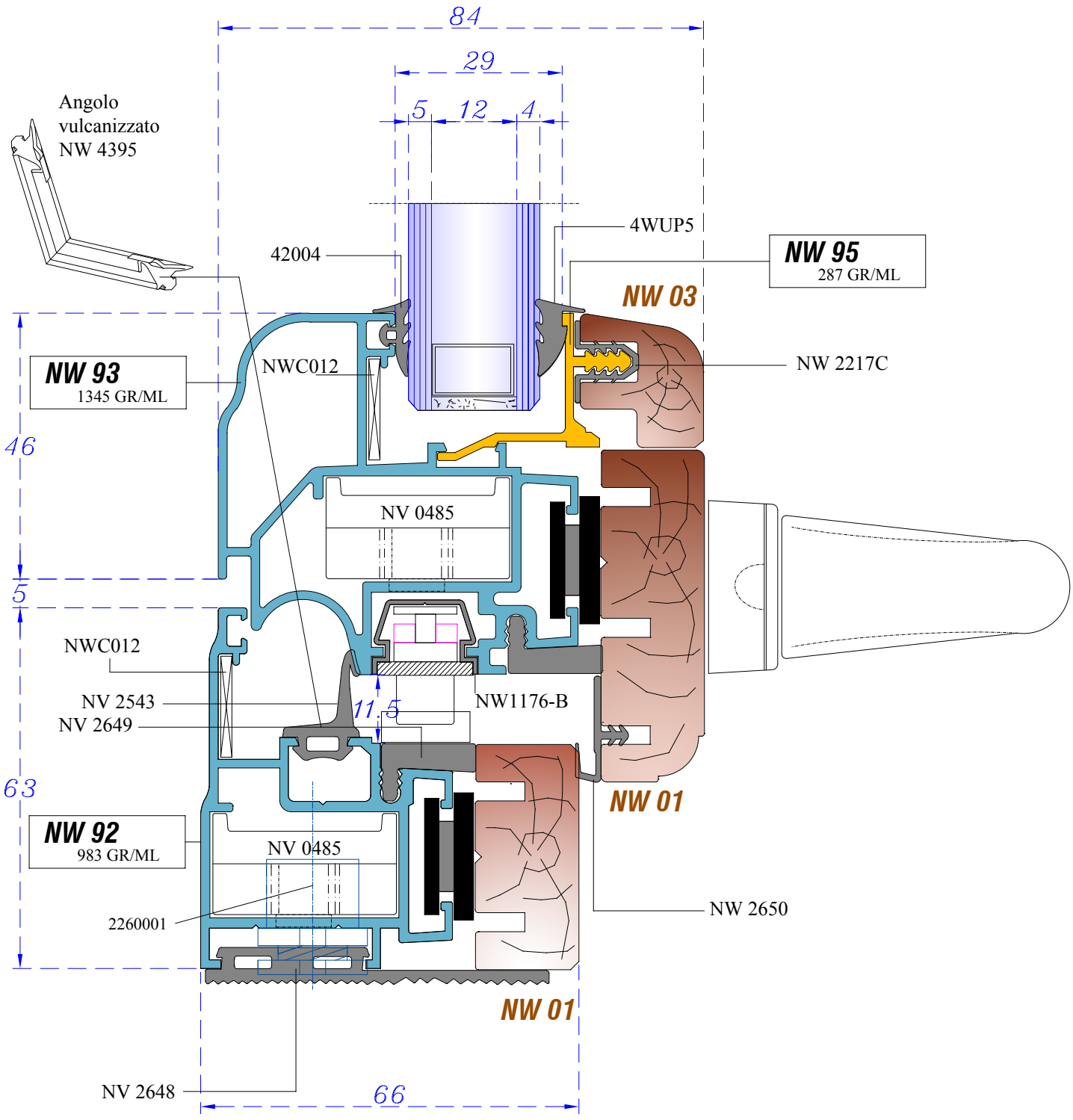
TRAVERSO E ZOCCOLO RIPORTATO
PER UTILIZZO SU ANTE ARROTONDATE CON
FERMAVETRO



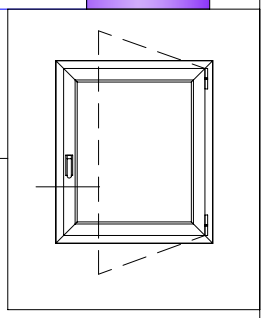


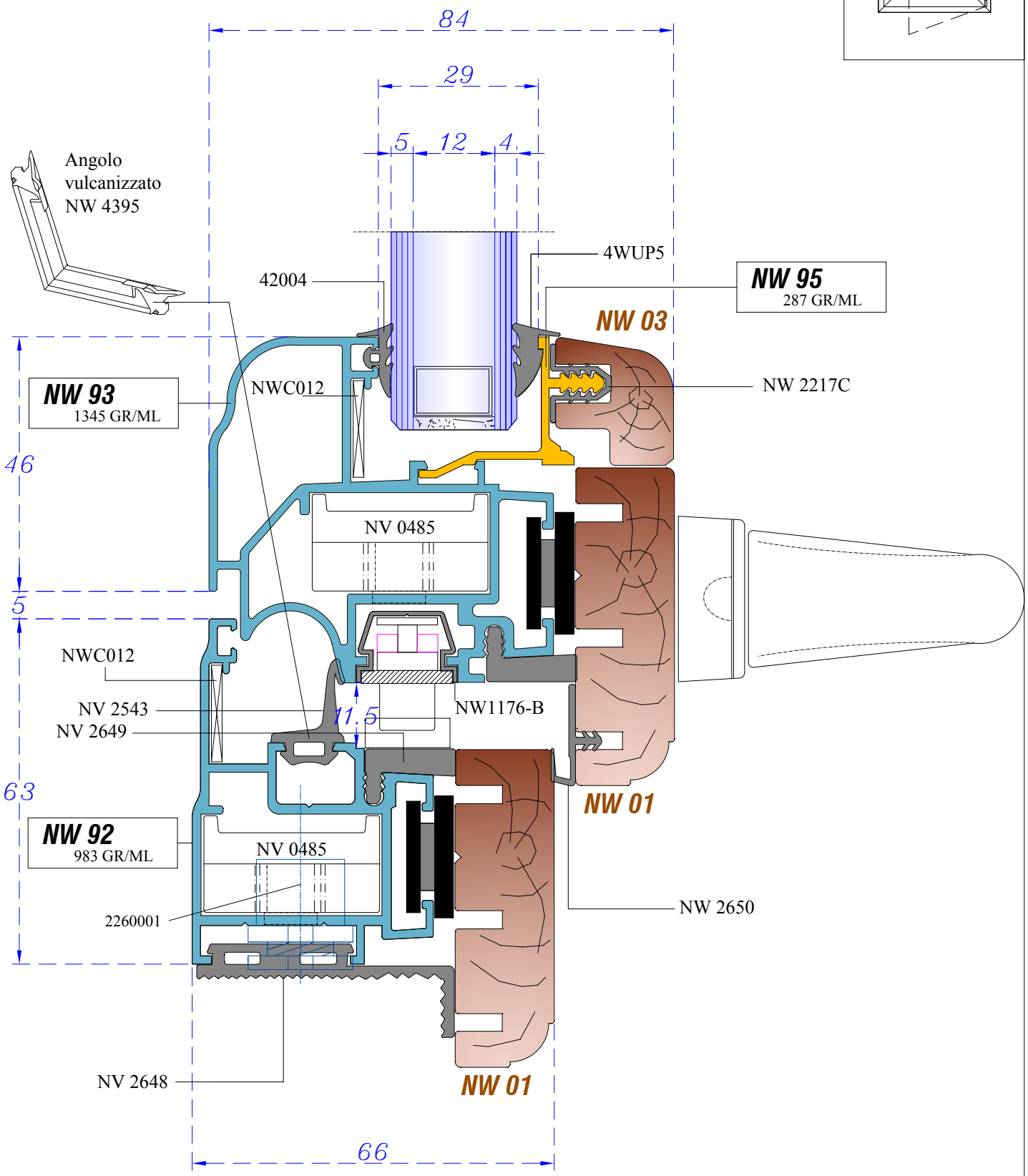
NODO LATERALE



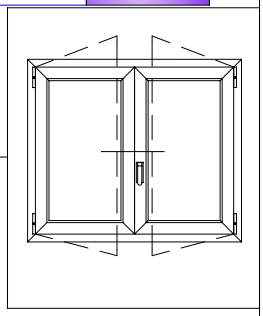


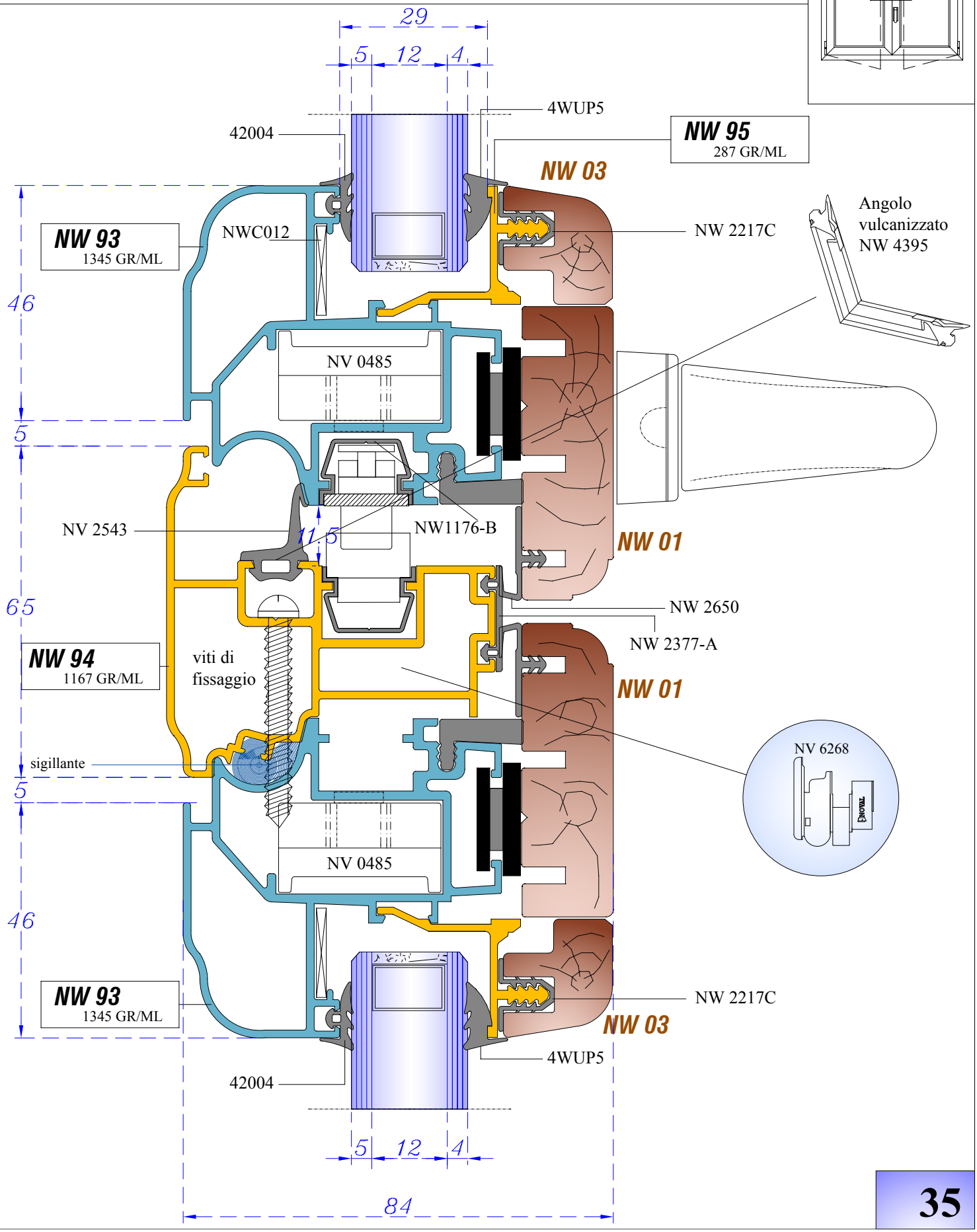
NODO LATERALE



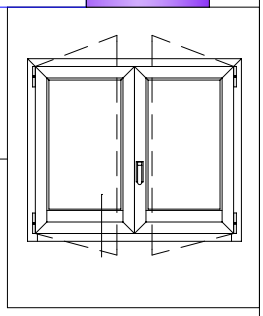


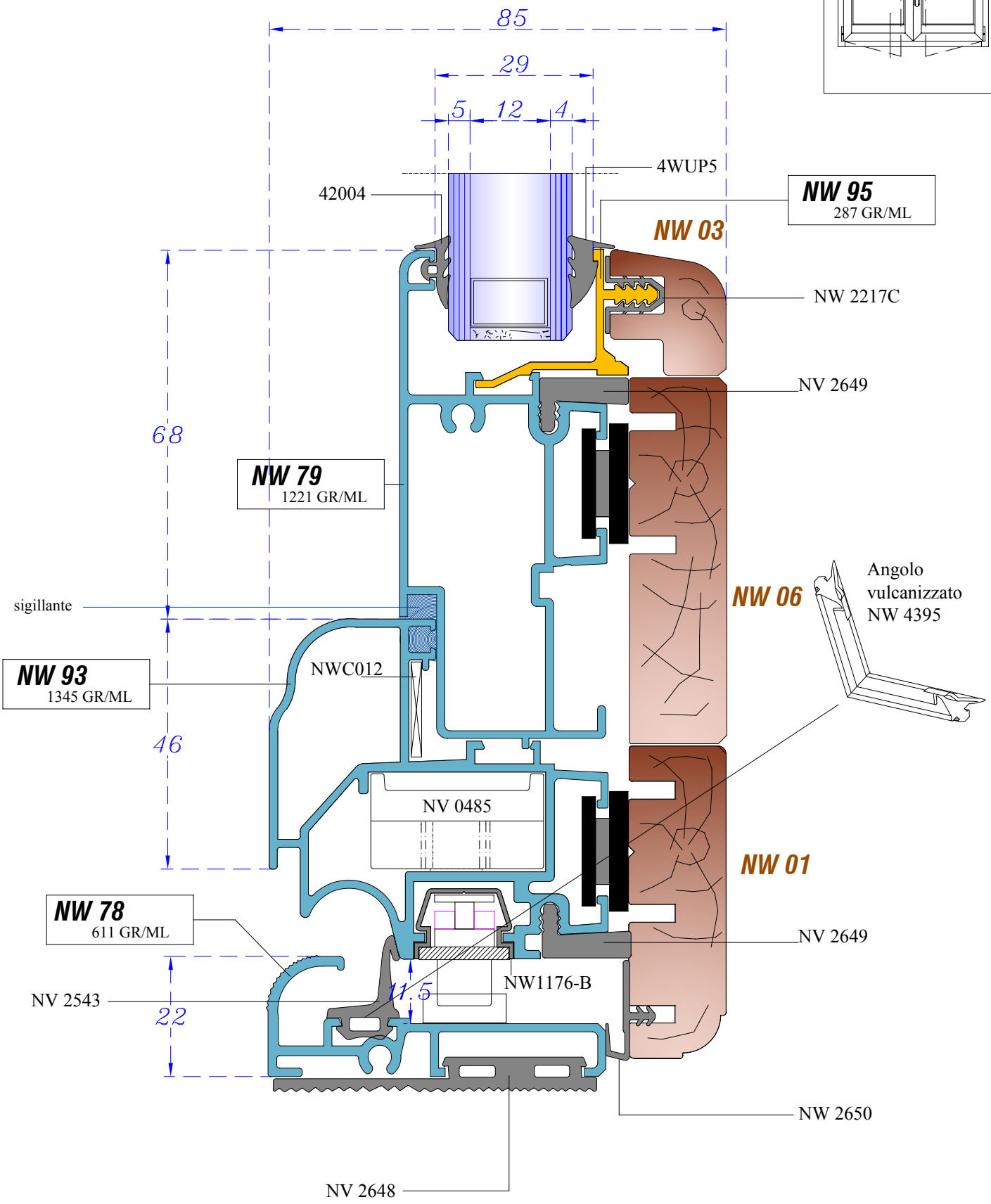
NODO CENTRALE



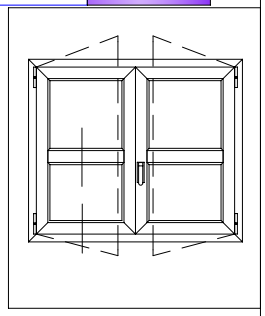


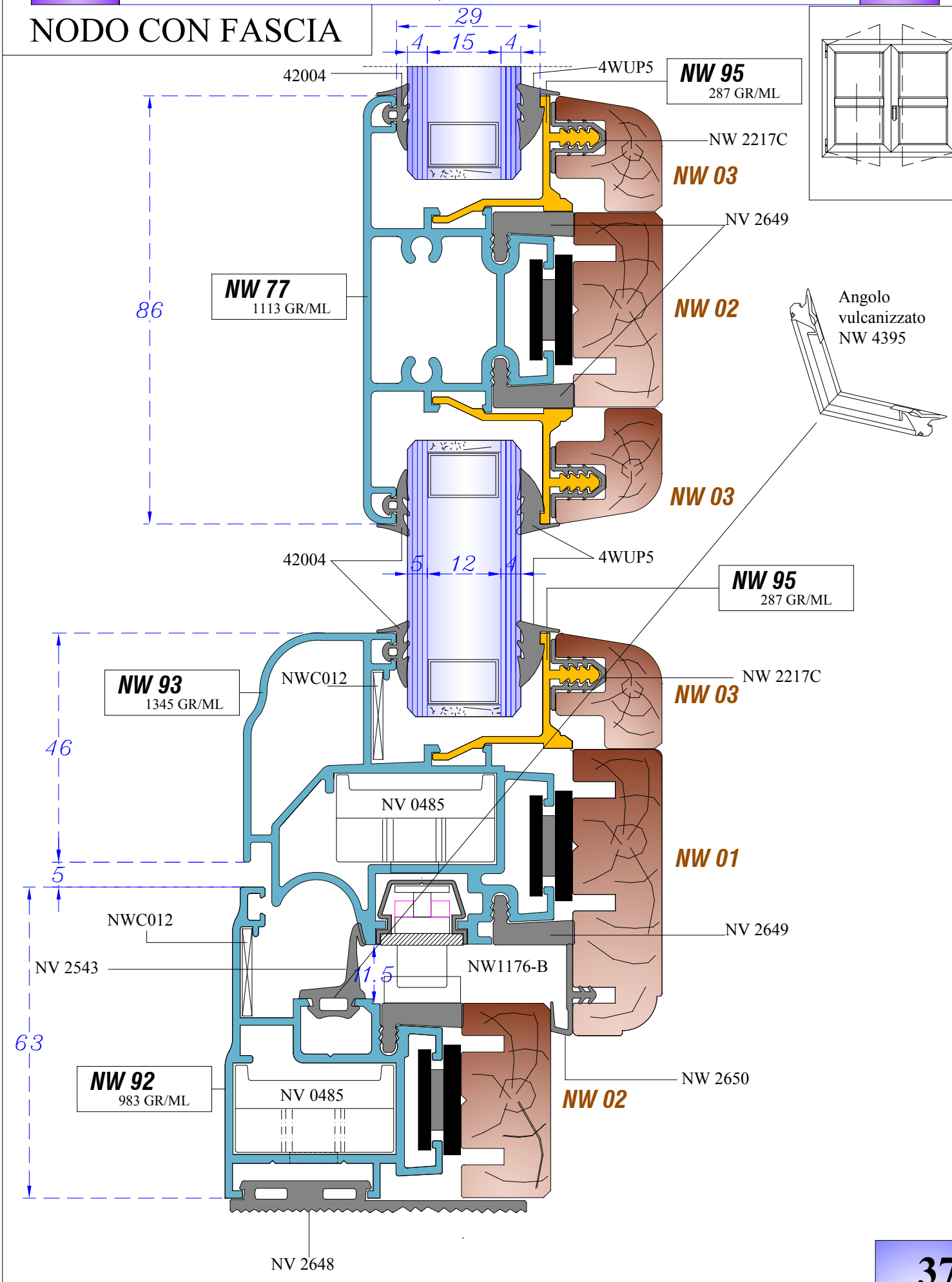
NODO INFERIORE CON SOGLIA



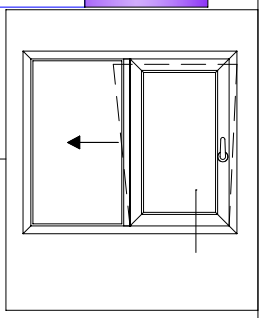


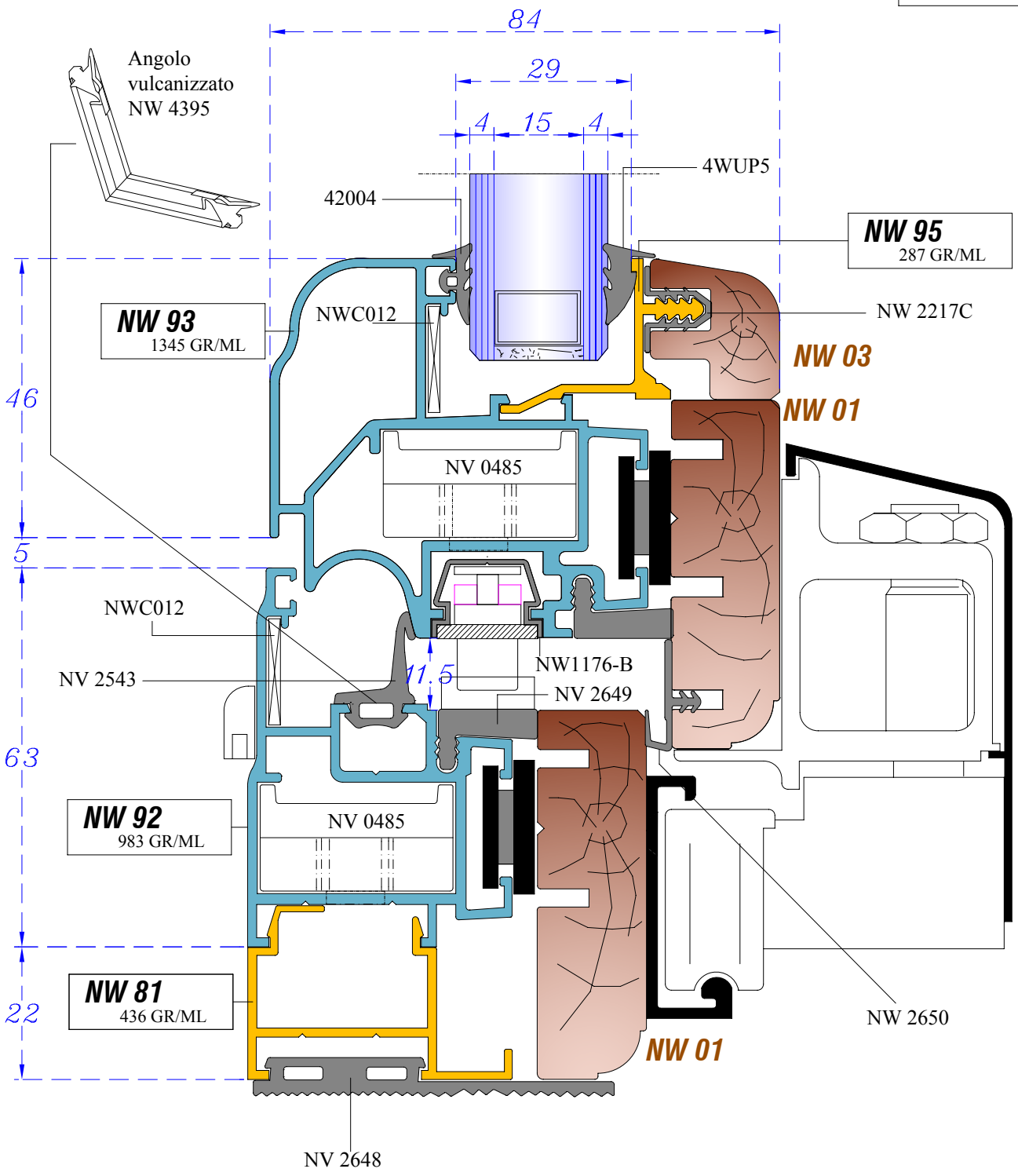
NODO CON FASCIA



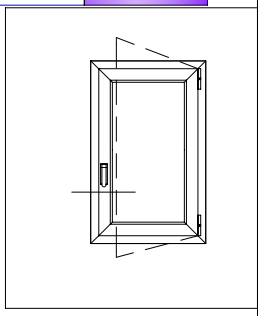


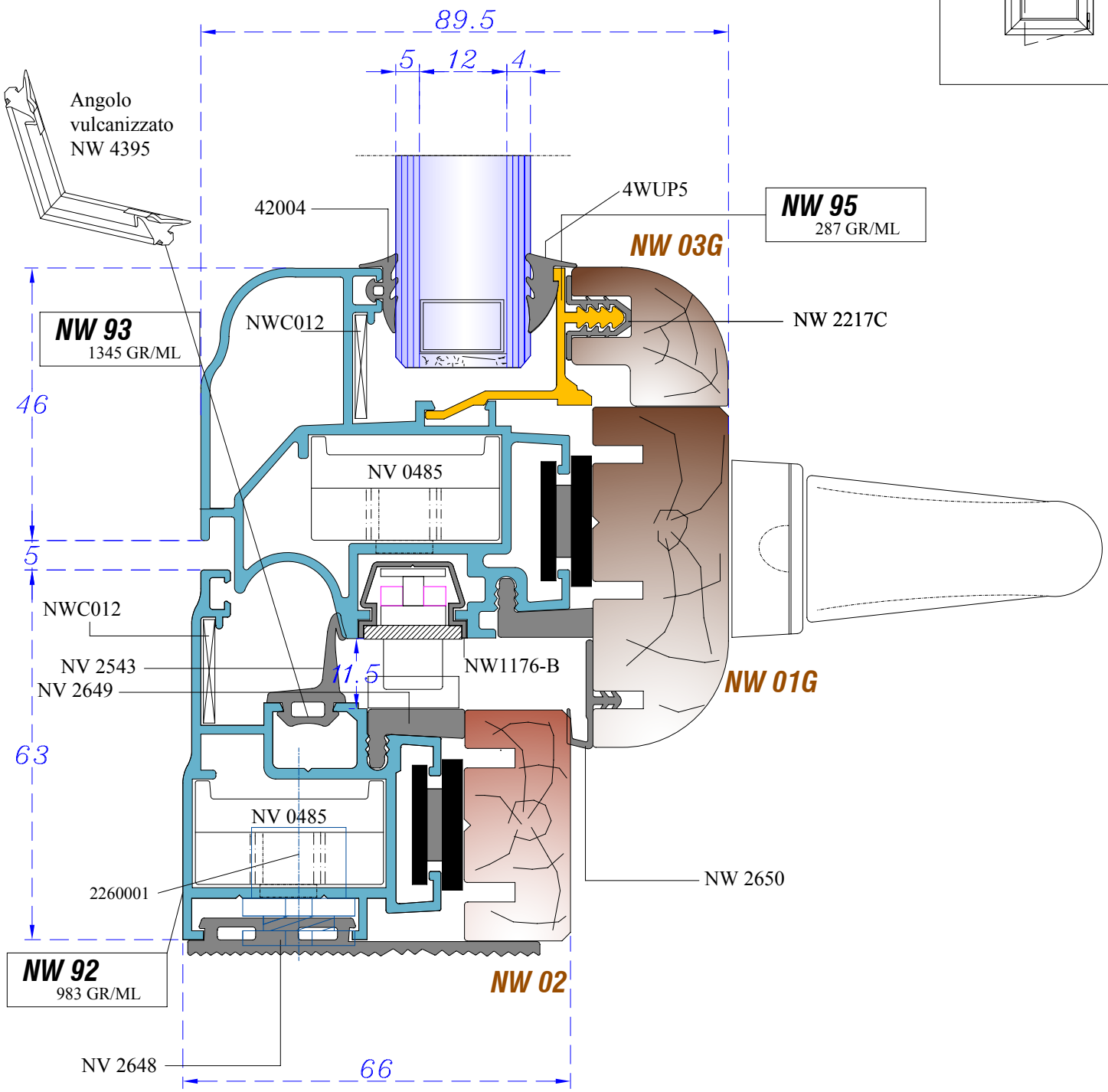
NODO INFERIORE SCORREVOLE A RIBALTA





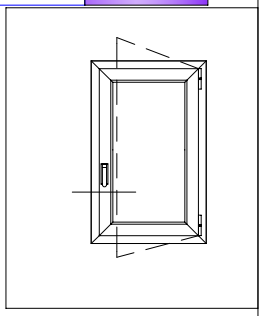
NODO LATERALE

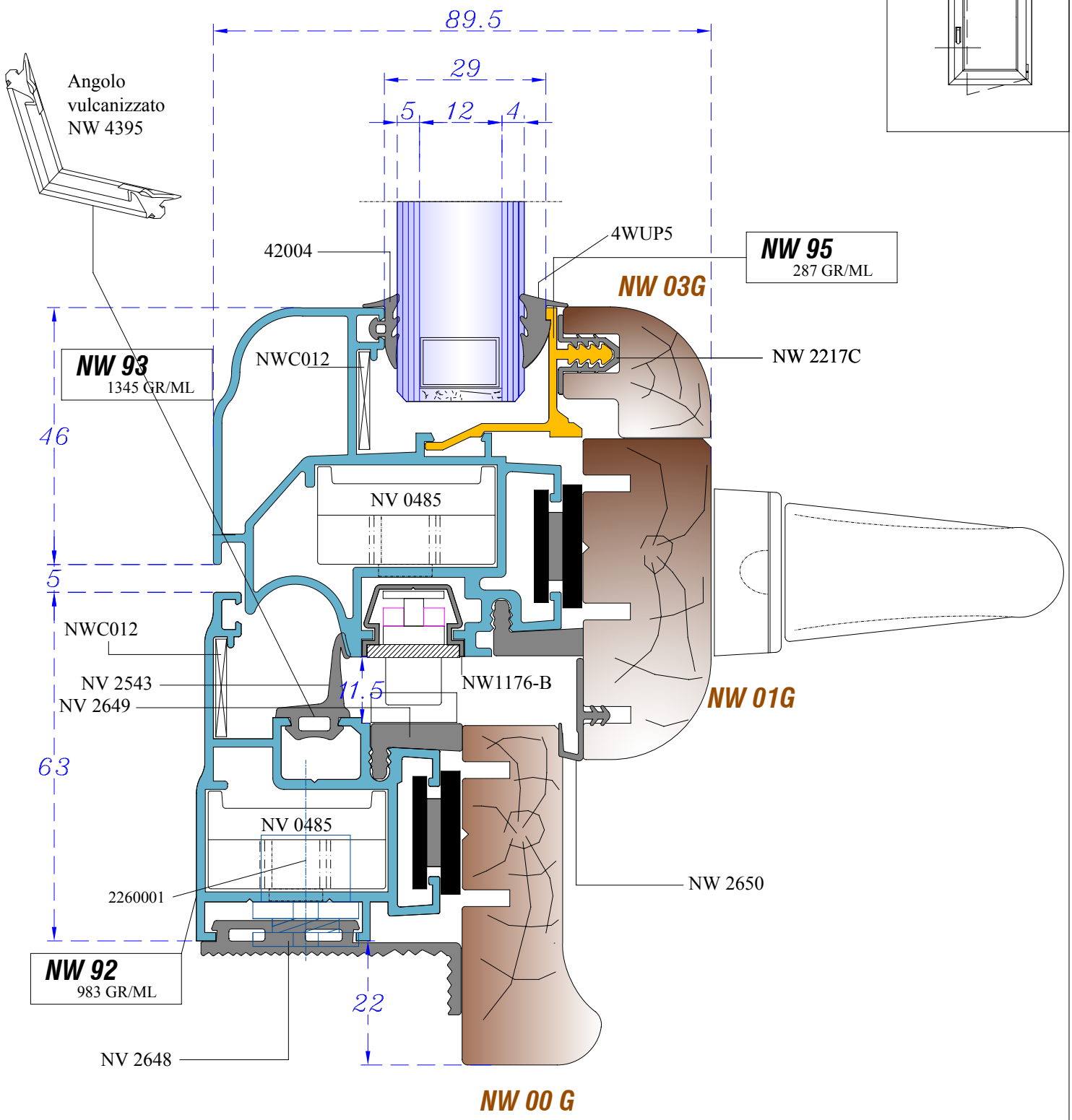




NOTA BENE CON I LEGNI DELLA LINEA GIOTTO
NON E' POSSIBILE L'APERTURA A 180°

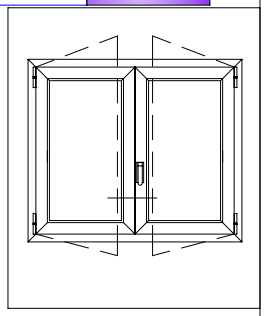
NODO LATERALE

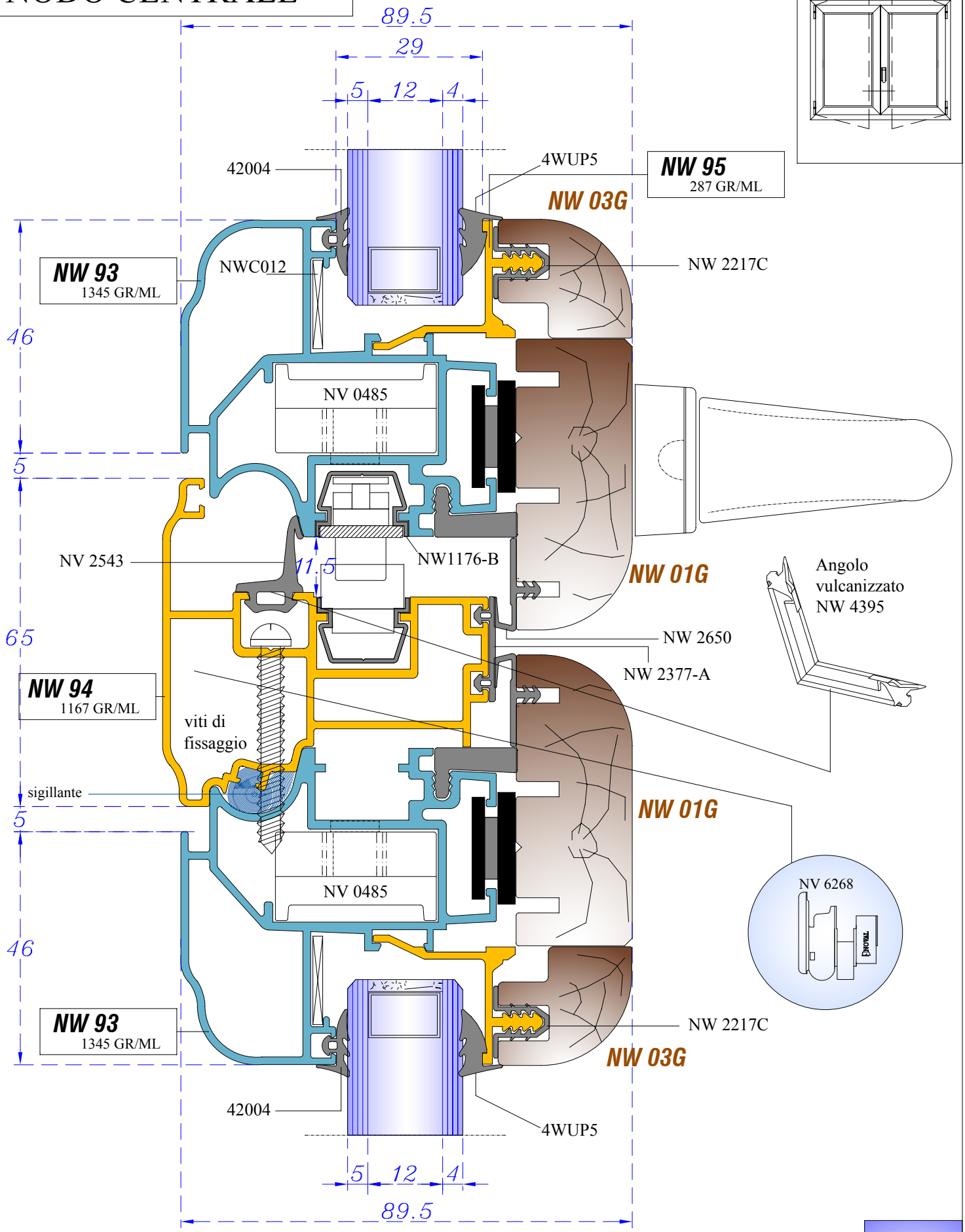




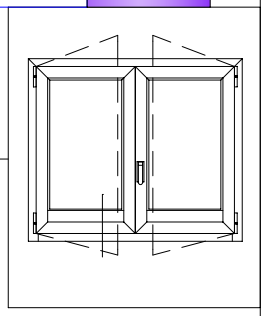
NOTA BENE CON I LEGNI DELLA LINEA GIOTTO
NON E' POSSIBILE L'APERTURA A 180°

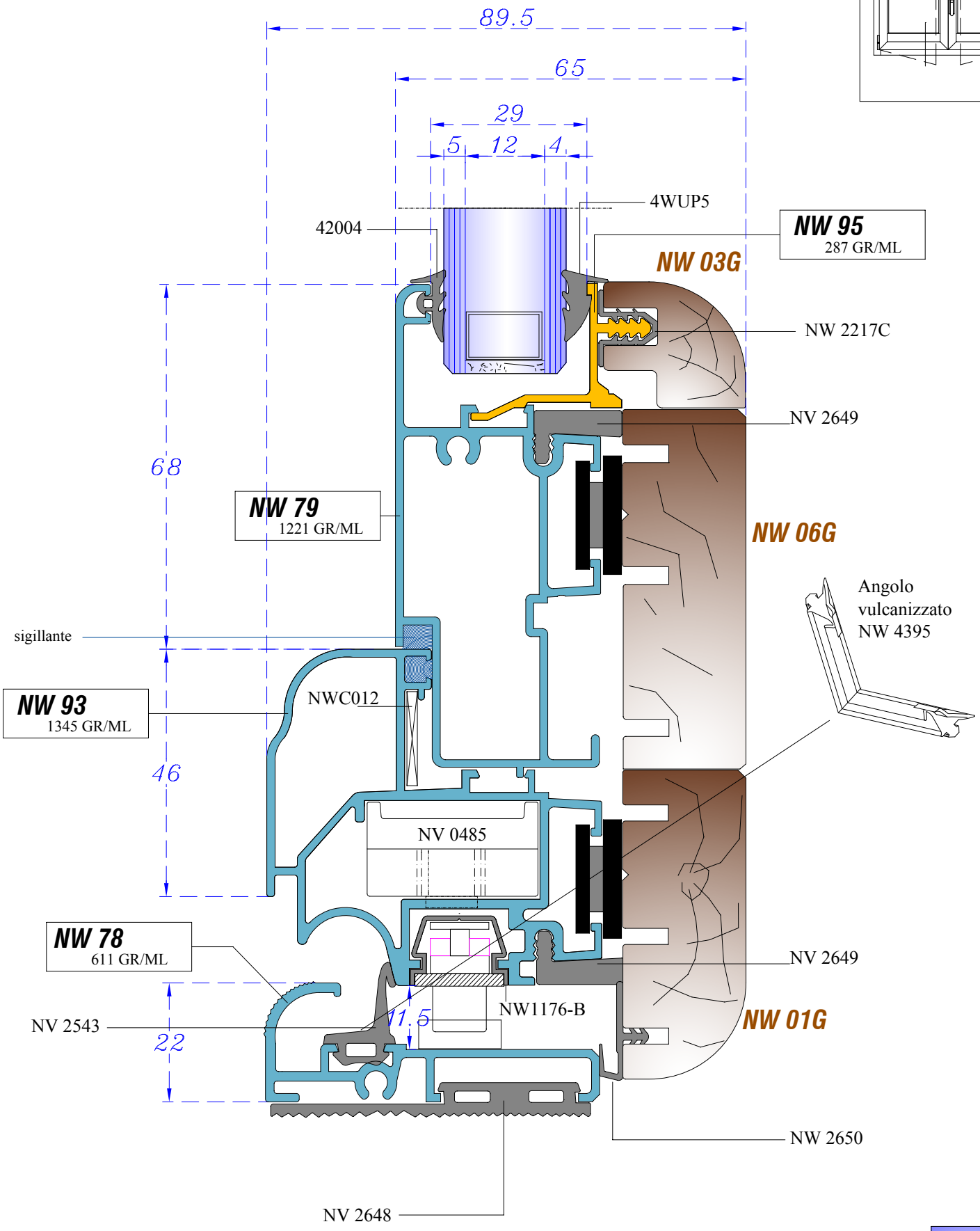
NODO CENTRALE



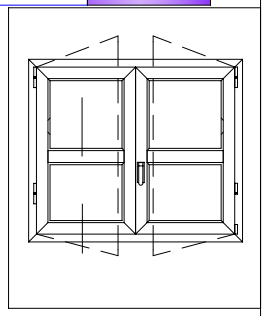


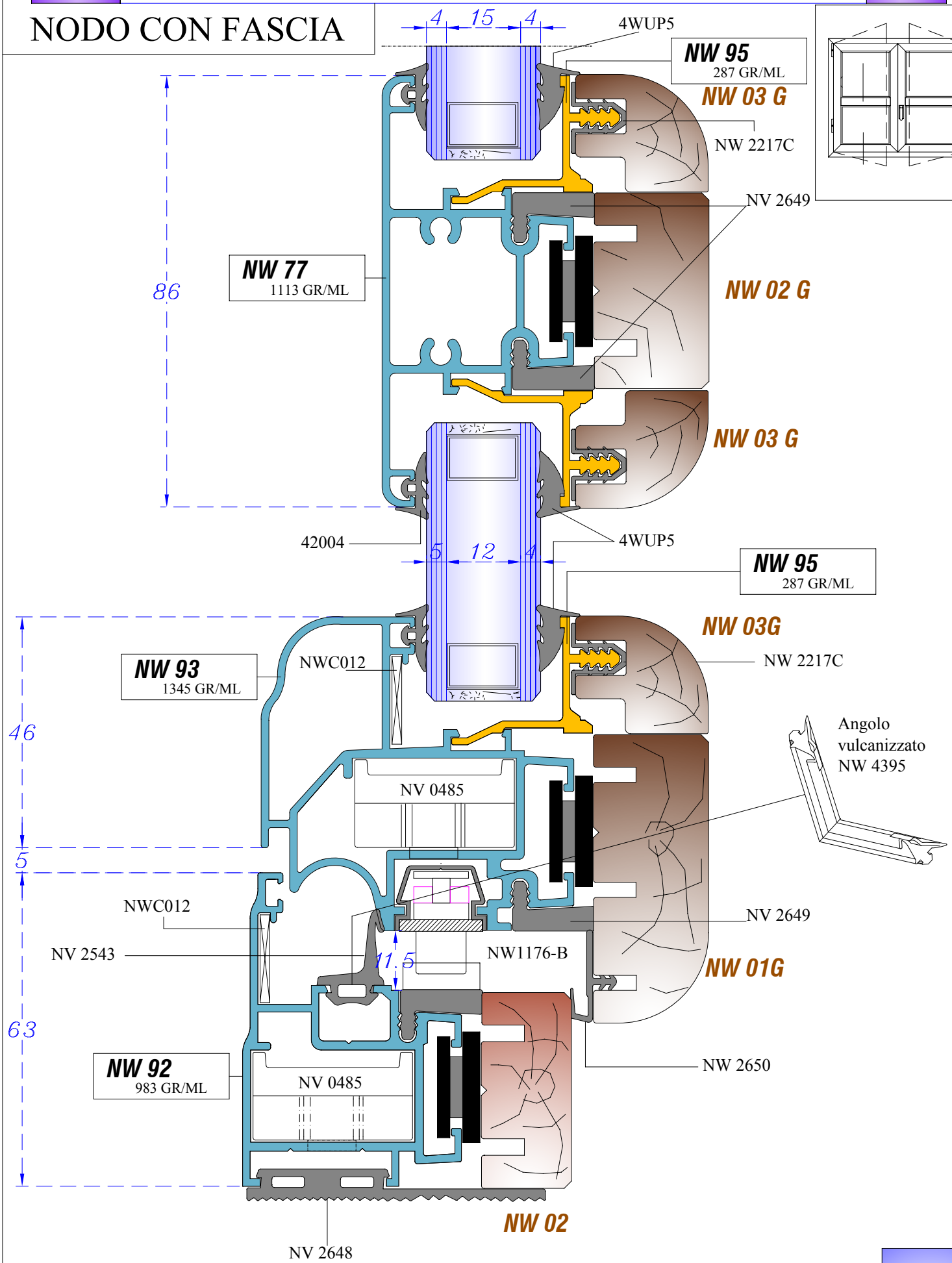
NODO INFERIORE CON SOGLIA



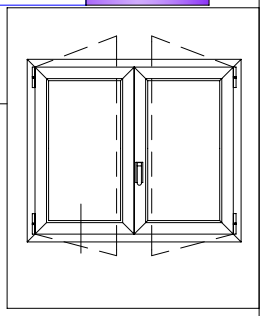


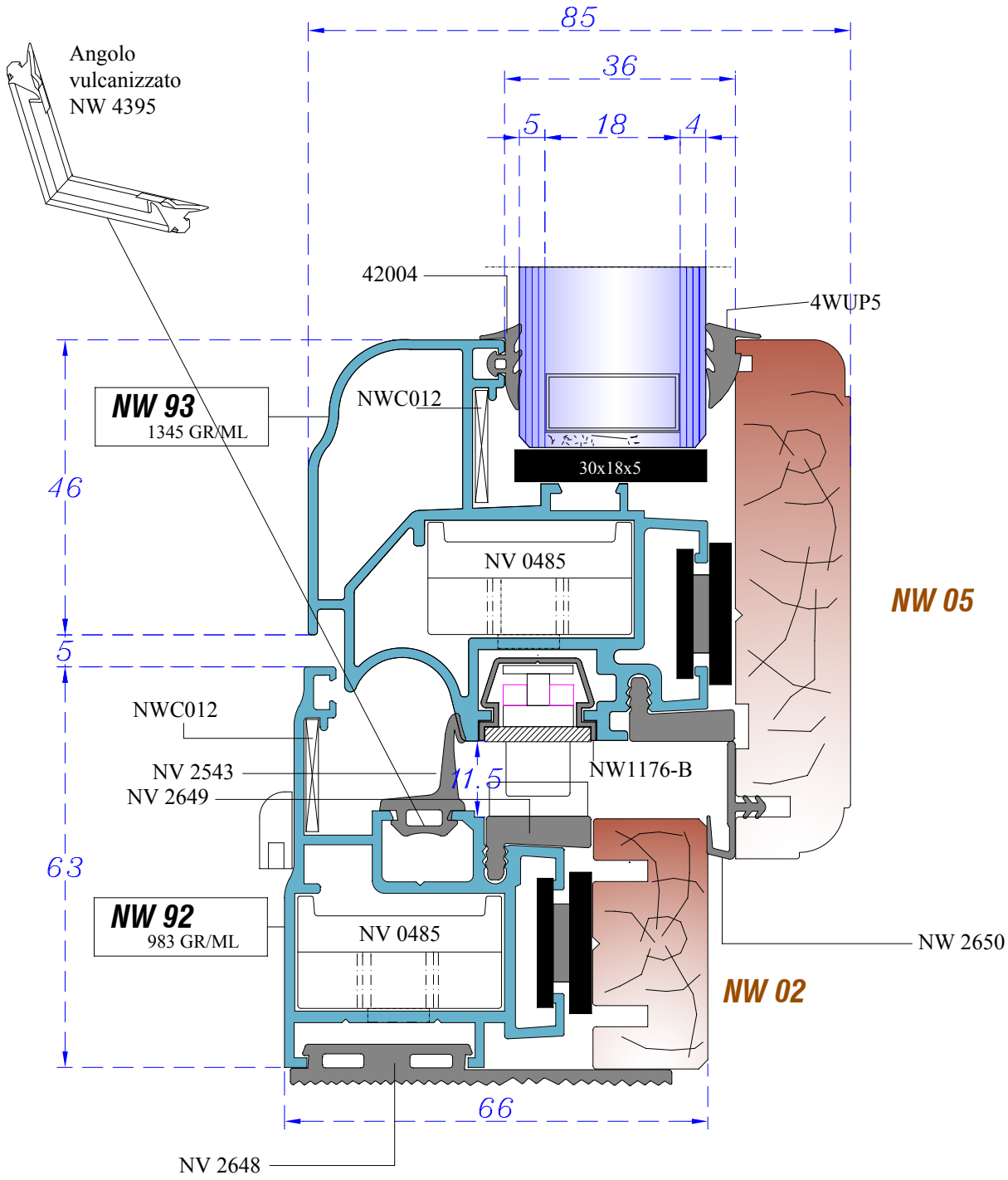
NODO CON FASCIA



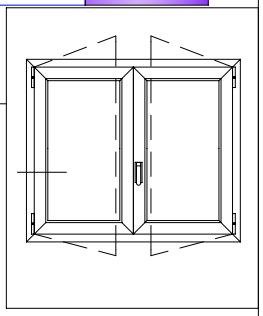


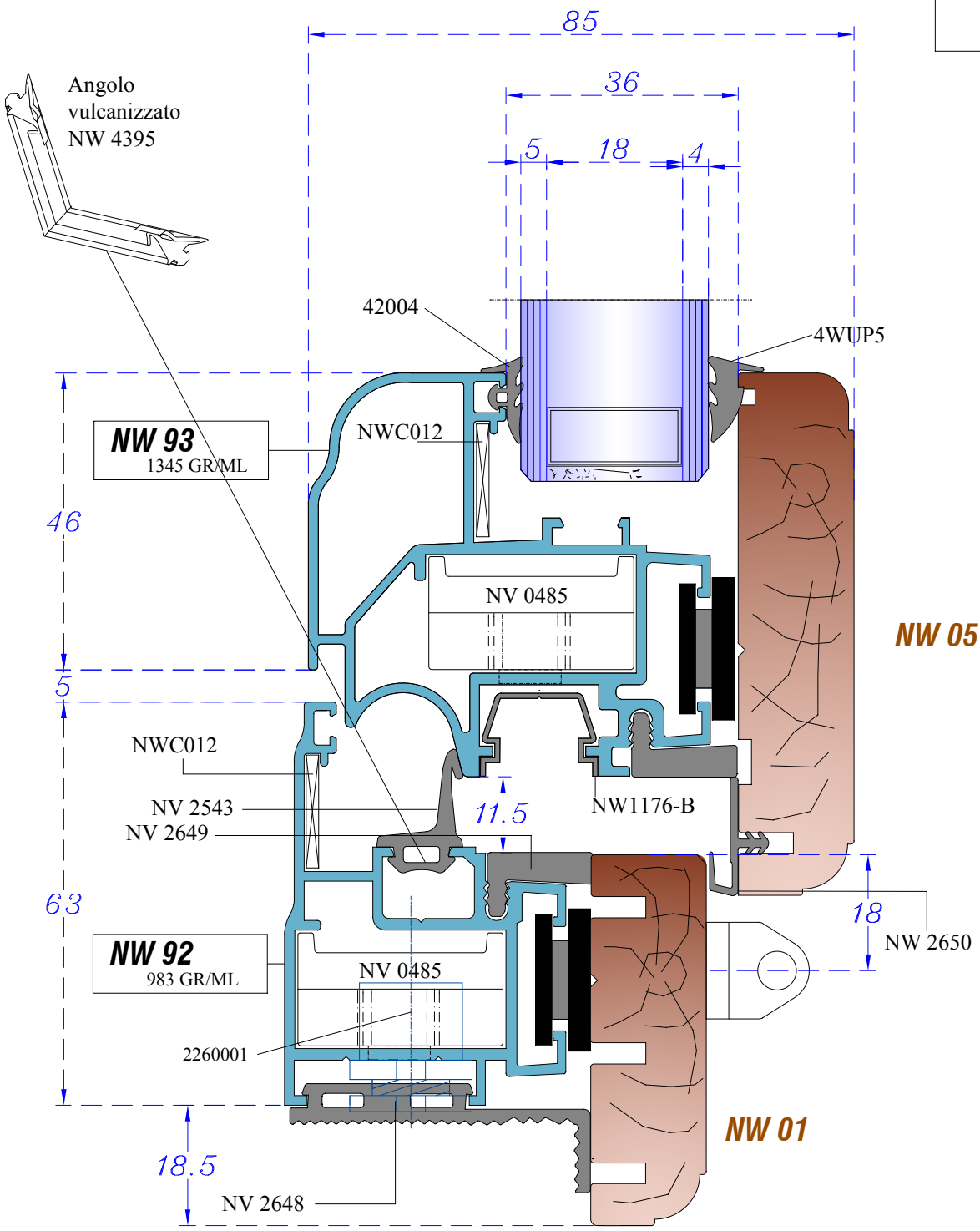
NODO INFERIORE



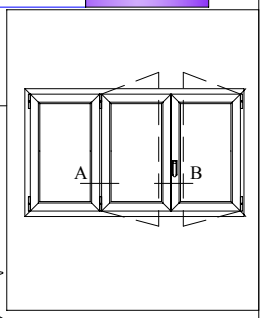


NODO LATERALE





NODO CENTRALE A 3 ANTE



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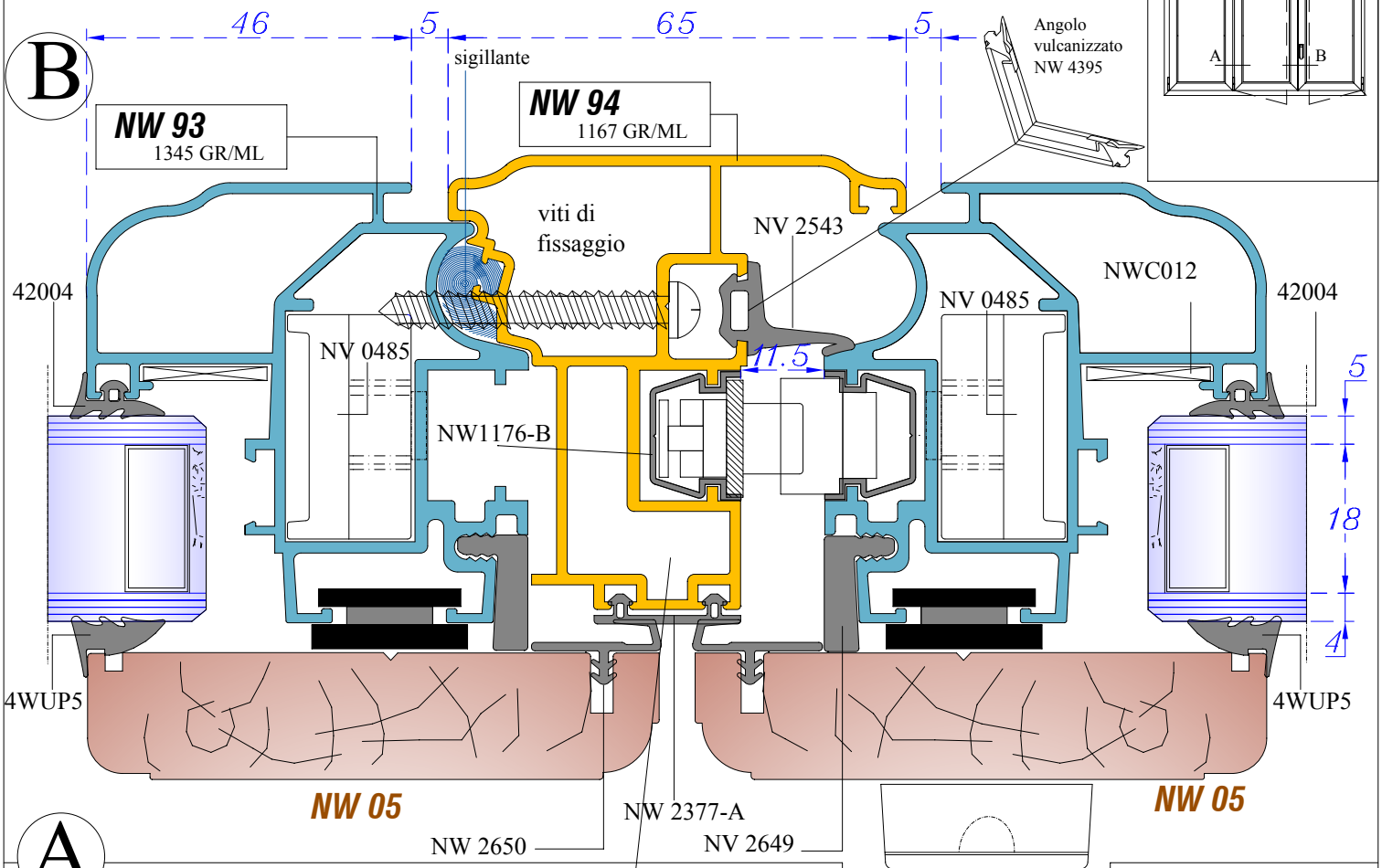

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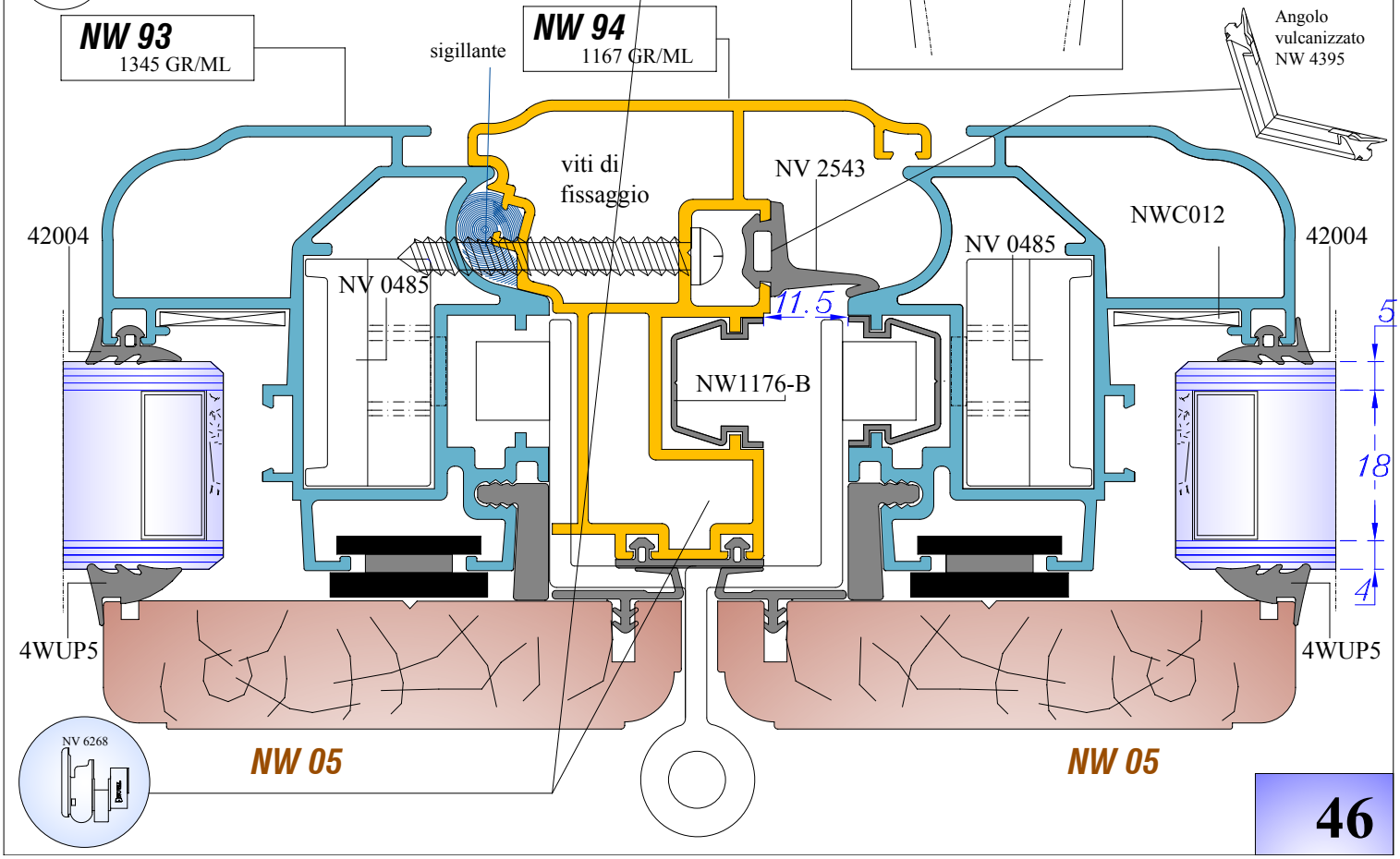

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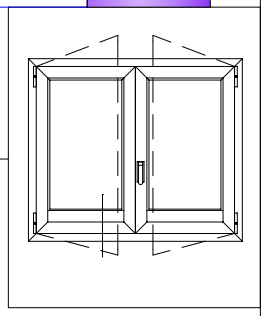

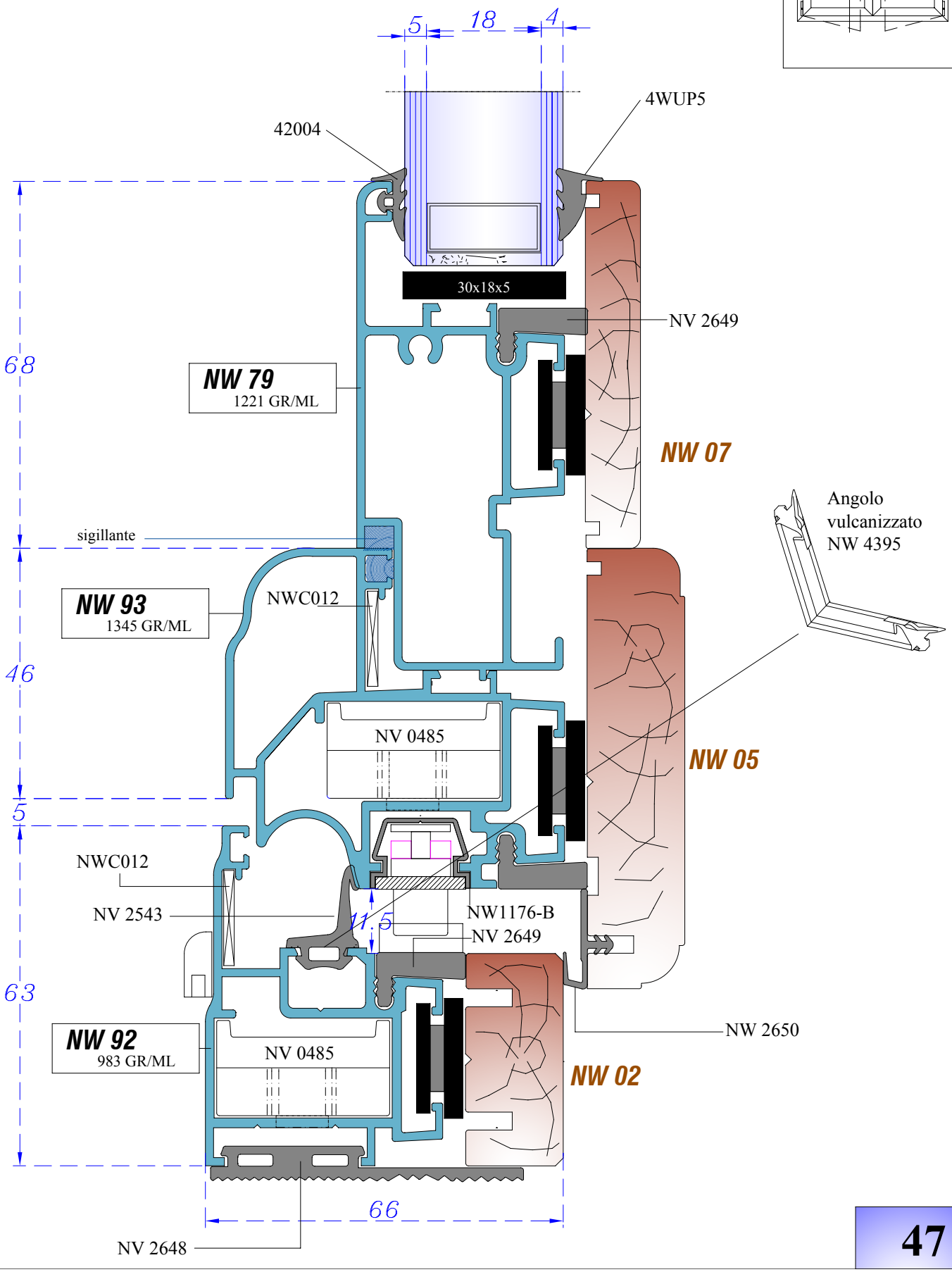

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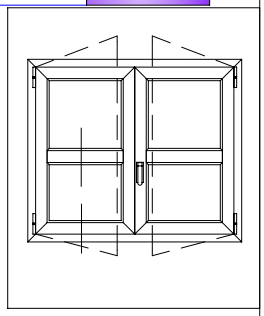

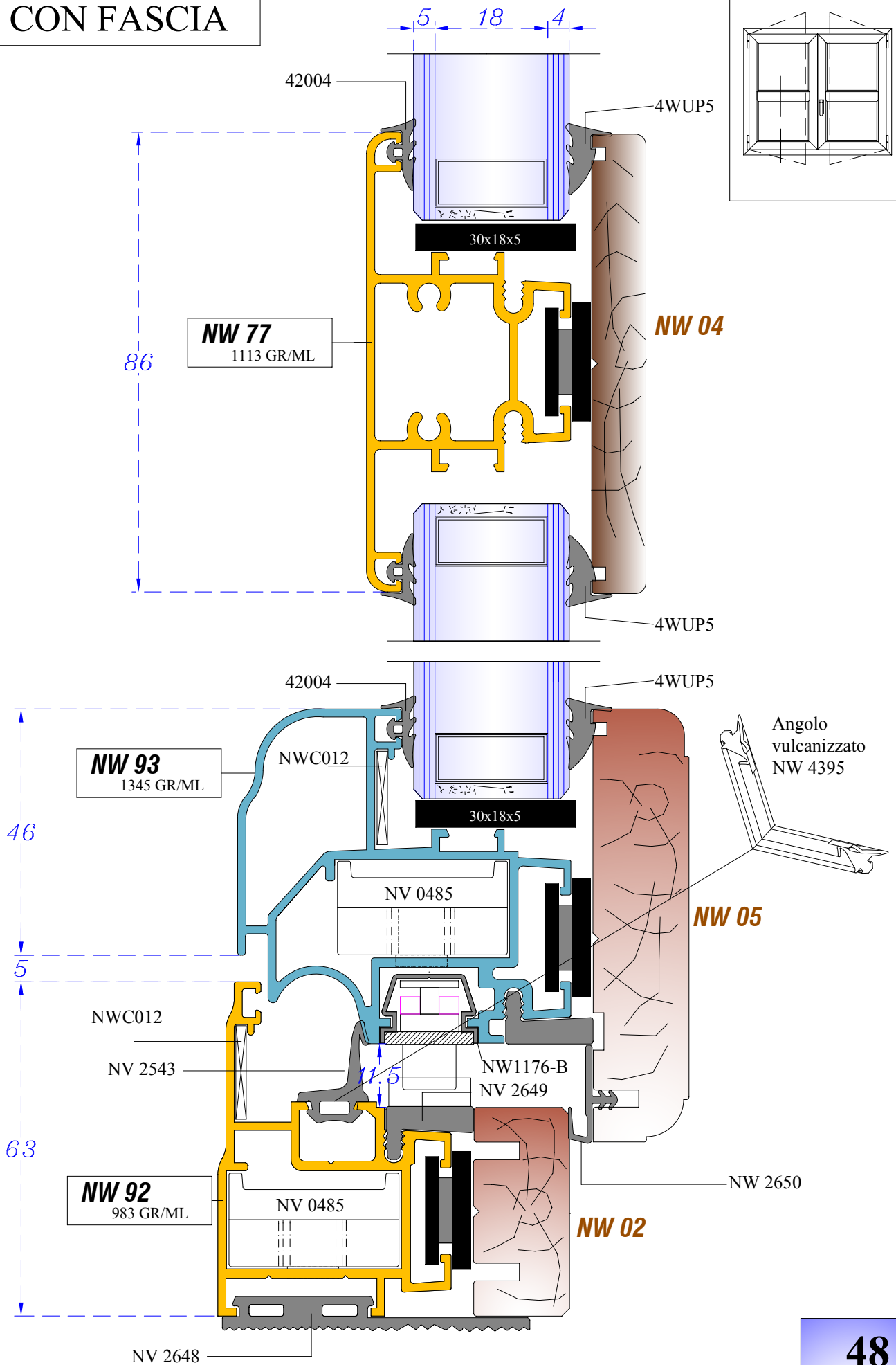

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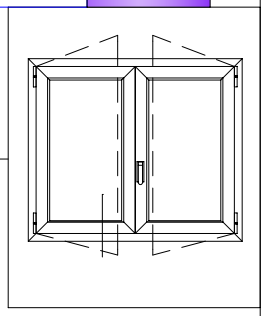
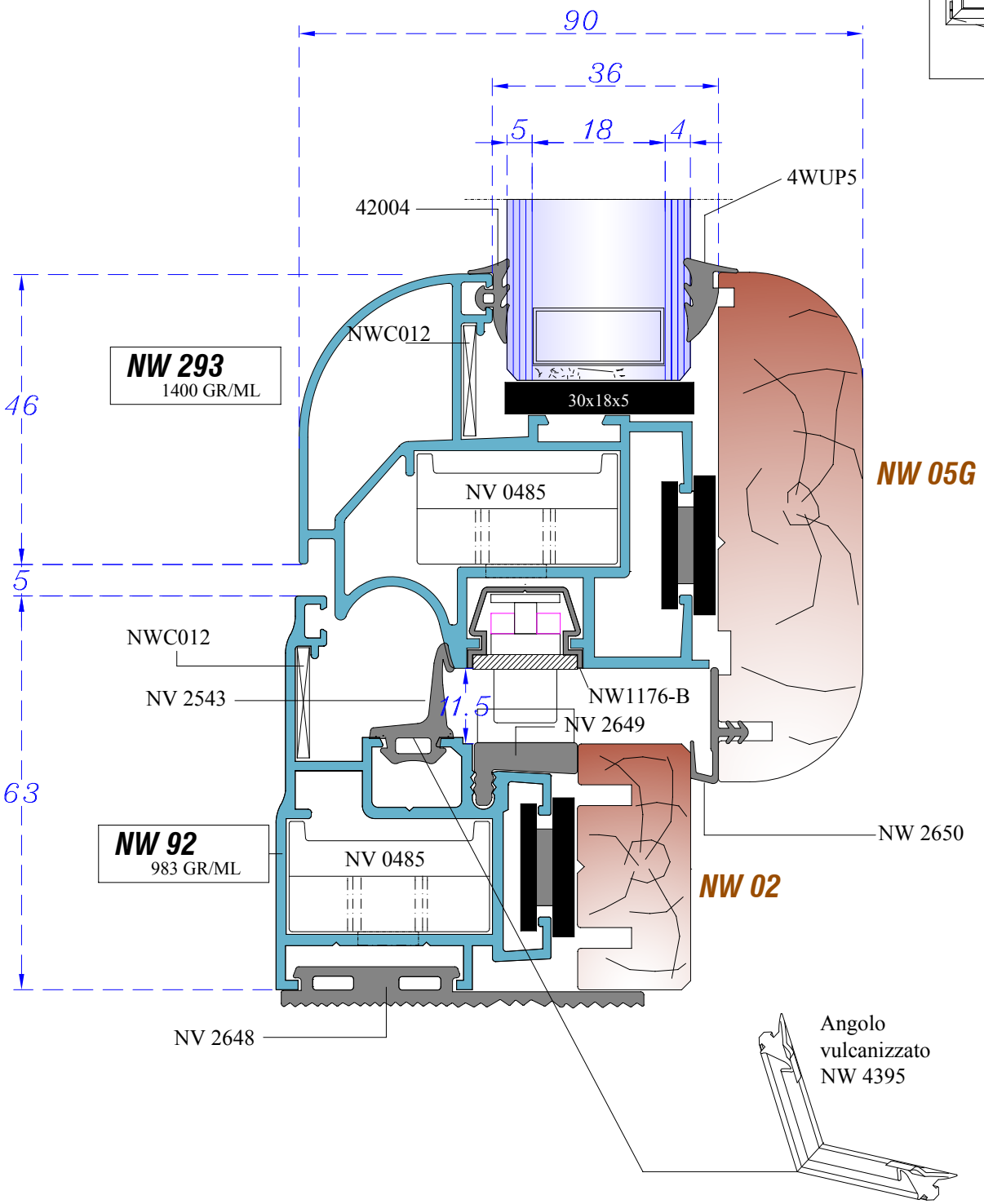
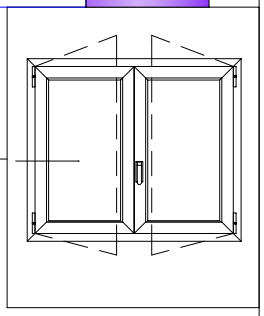
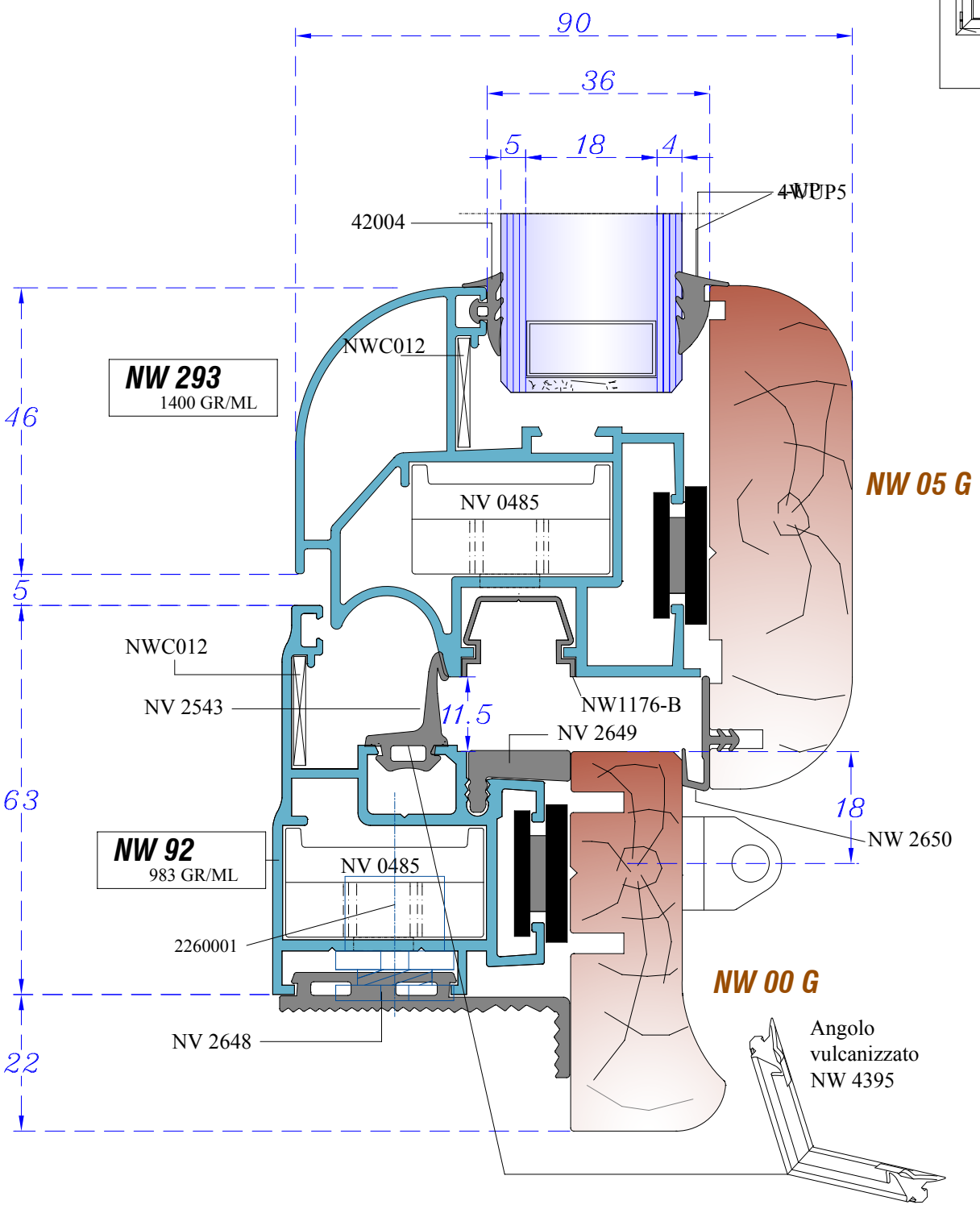




NOTA BENE CON I LEGNI DELLA LINEA GIOTTO
NON E' POSSIBILE L'APERTURA A 180°

NODO LATERALE





NOTA BENE CON I LEGNI DELLA LINEA GIOTTO
NON E' POSSIBILE L'APERTURA A 180°

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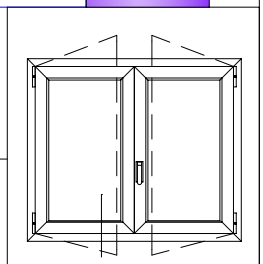

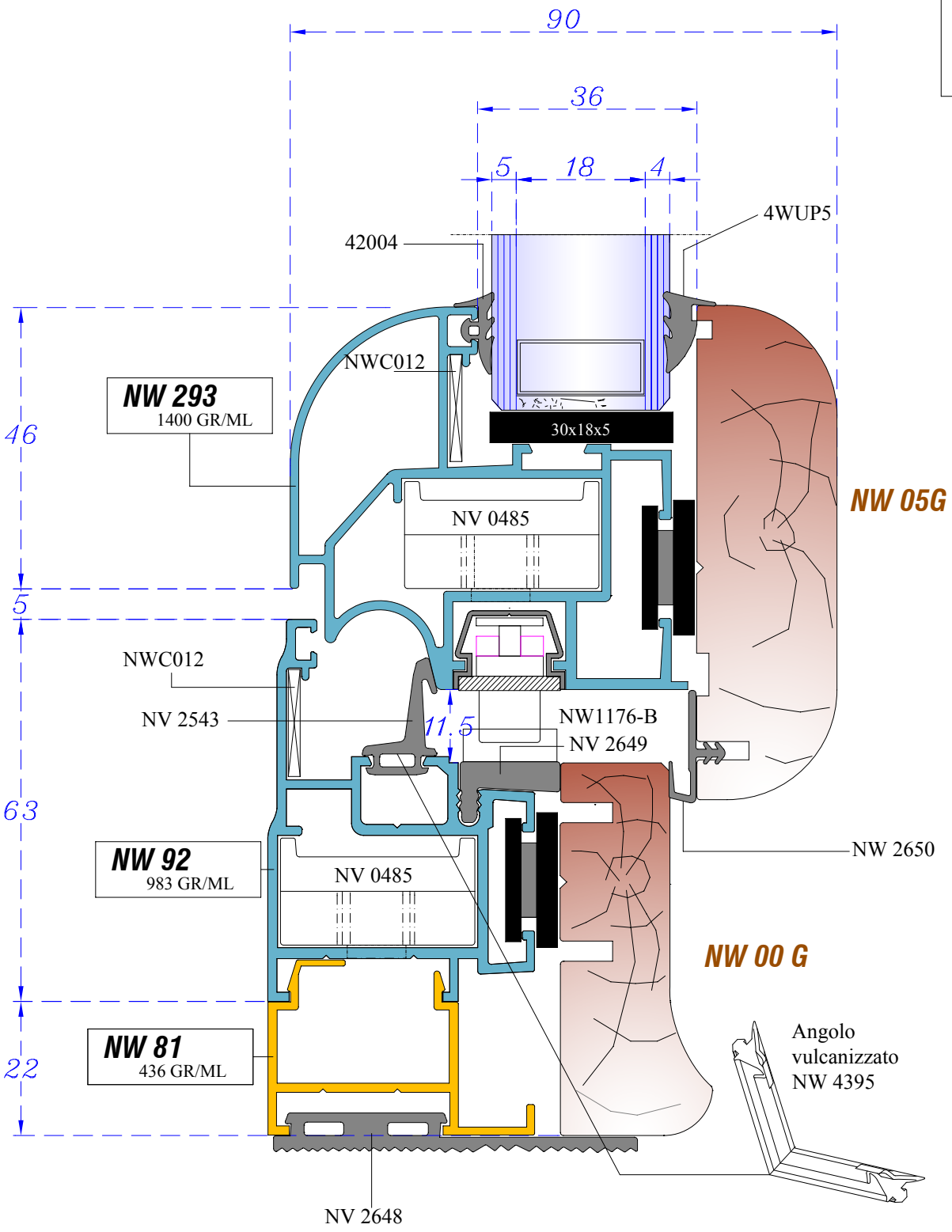

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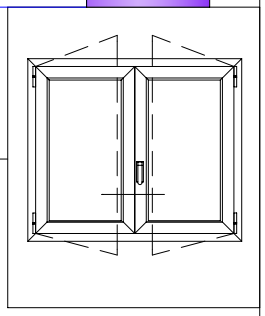

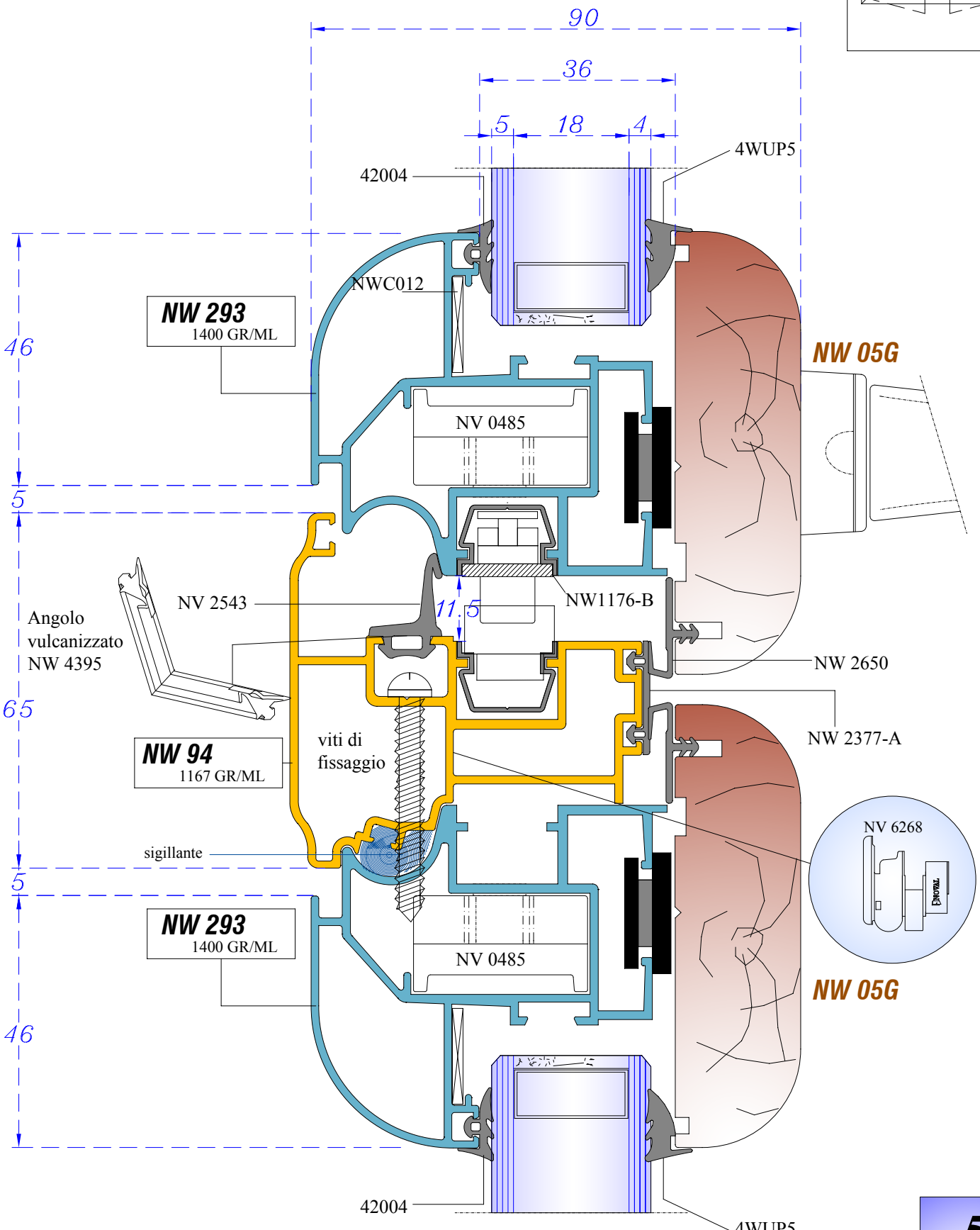

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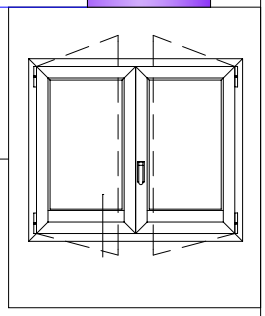

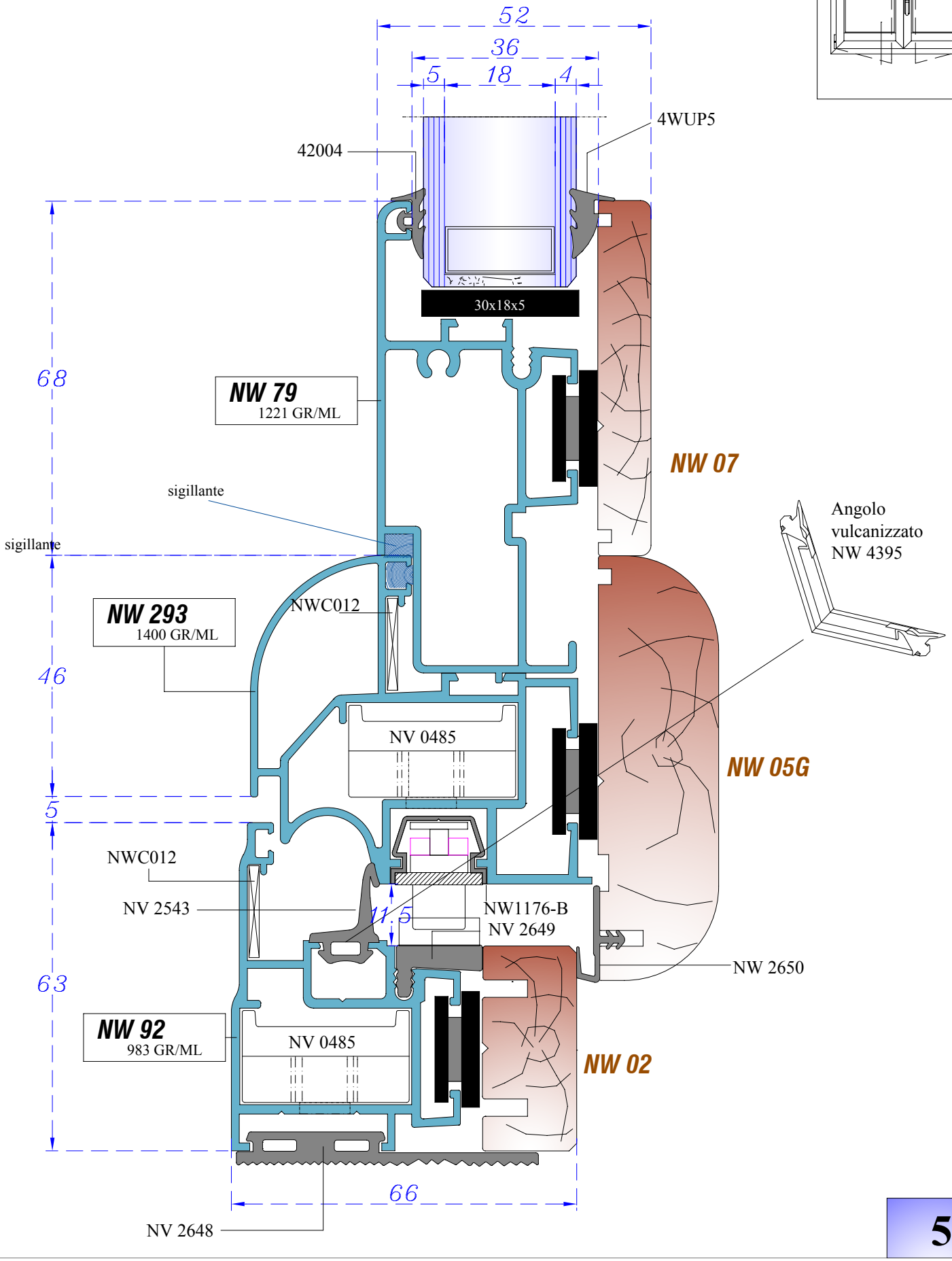

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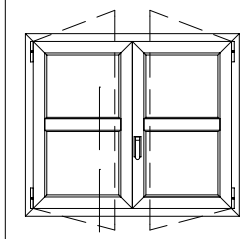

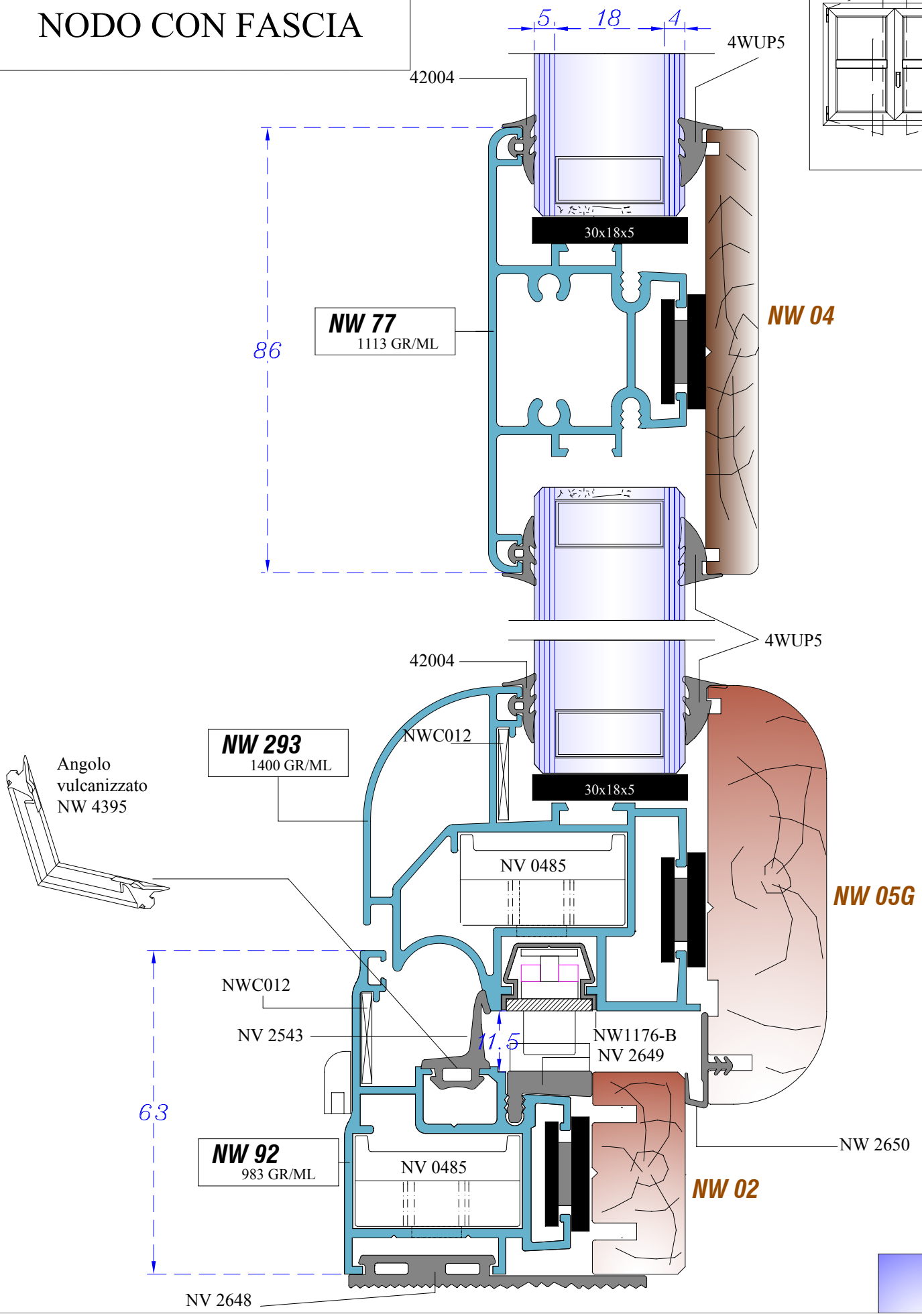

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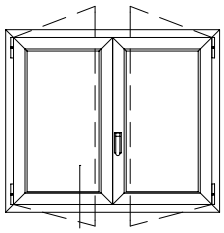
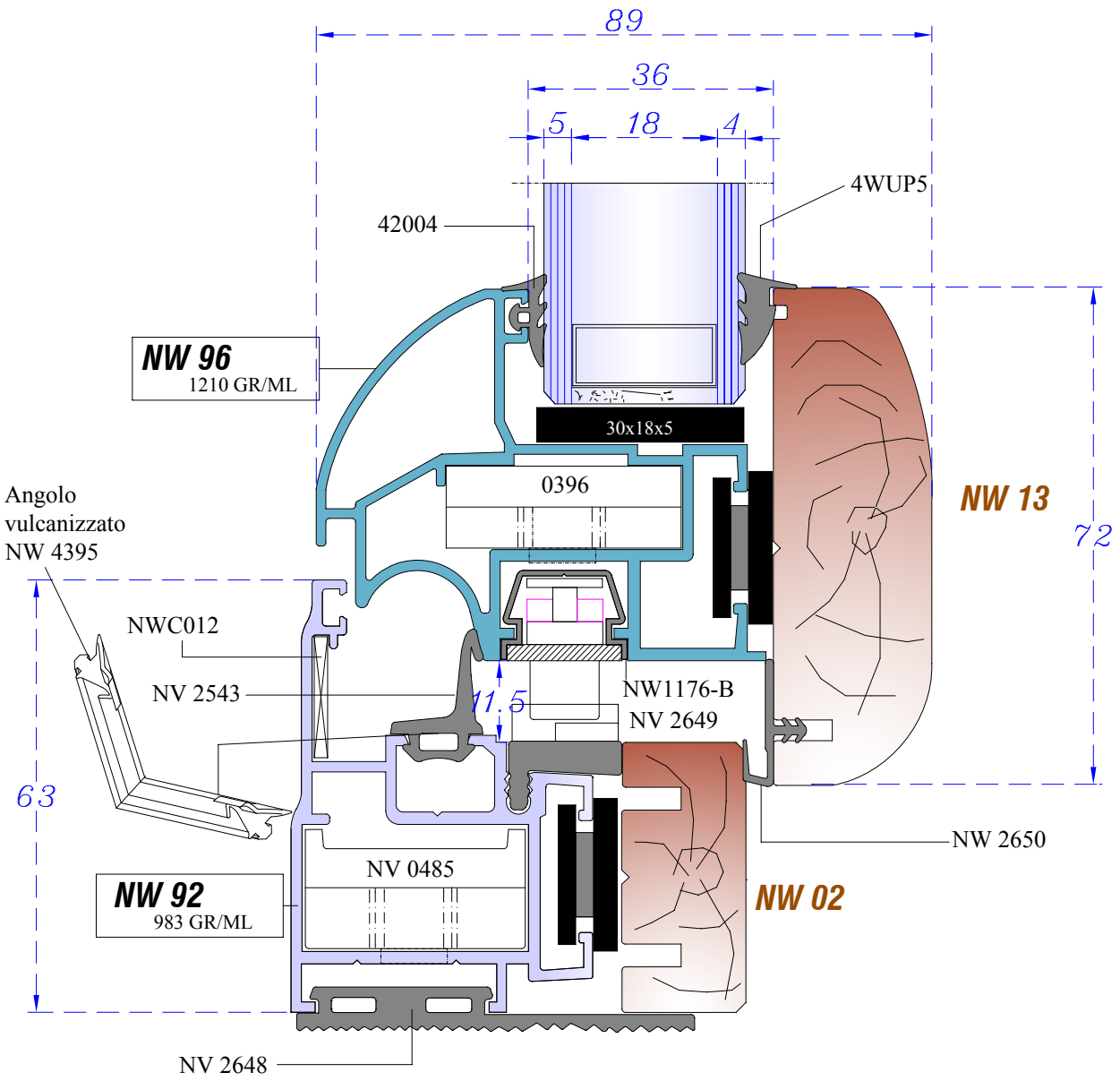
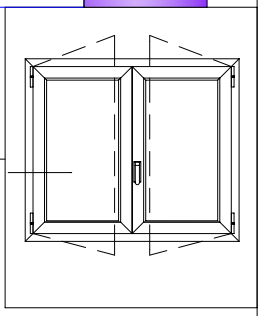
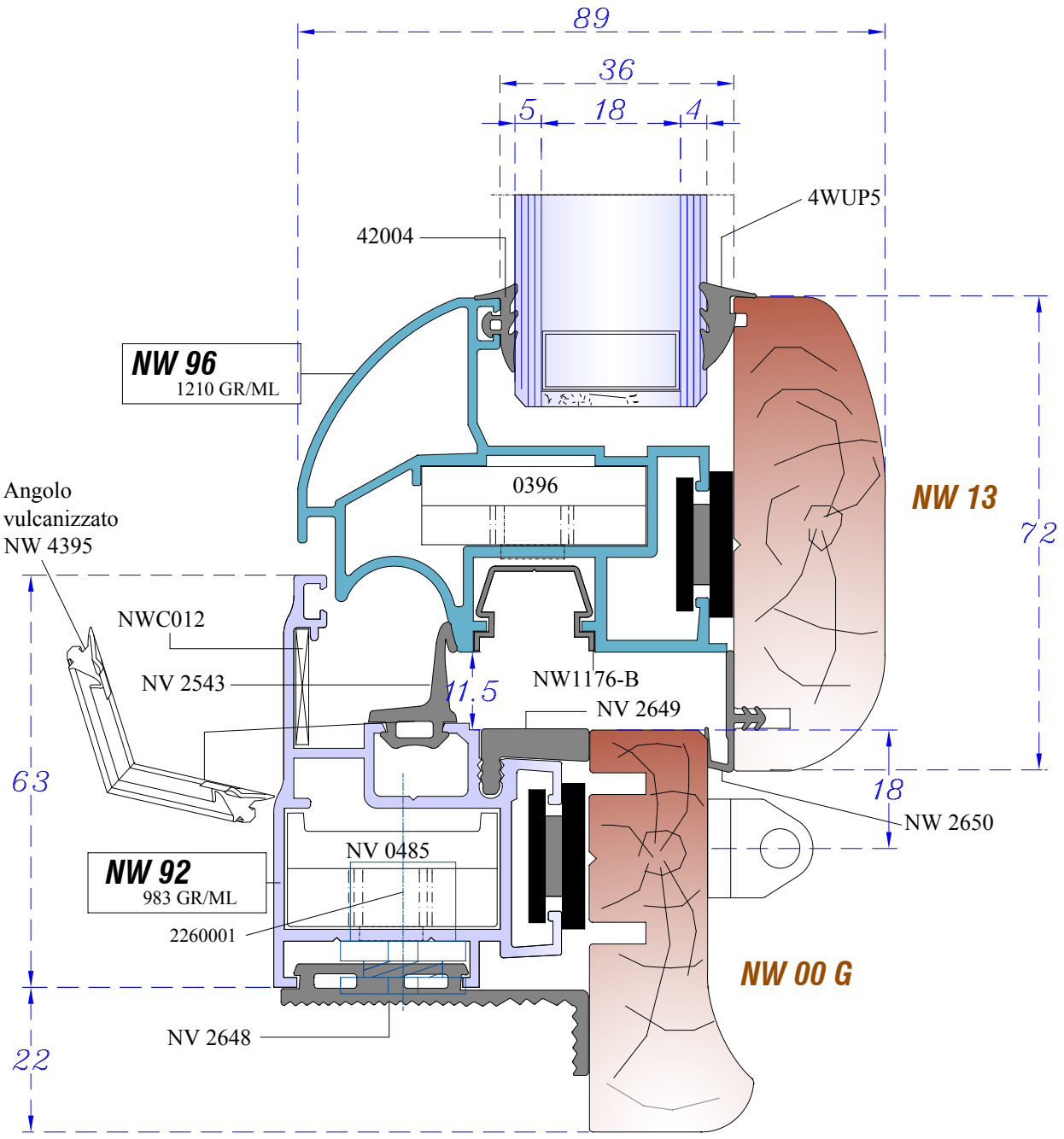


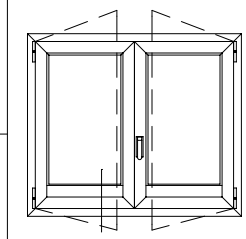


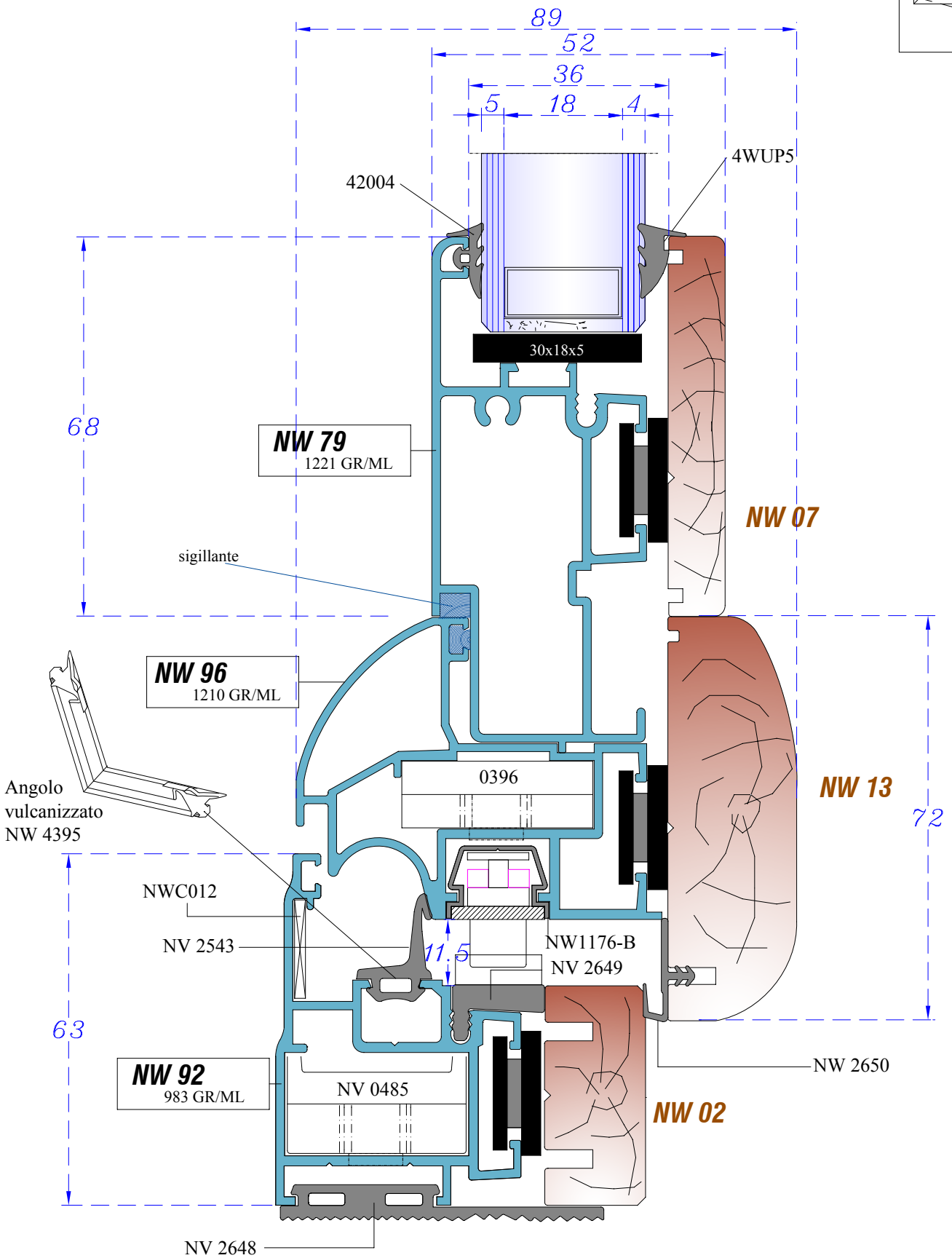
NODO LATERALE





NODO ZOCCOLO RIPORTATO





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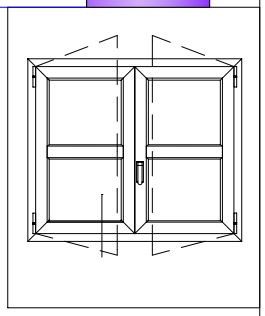

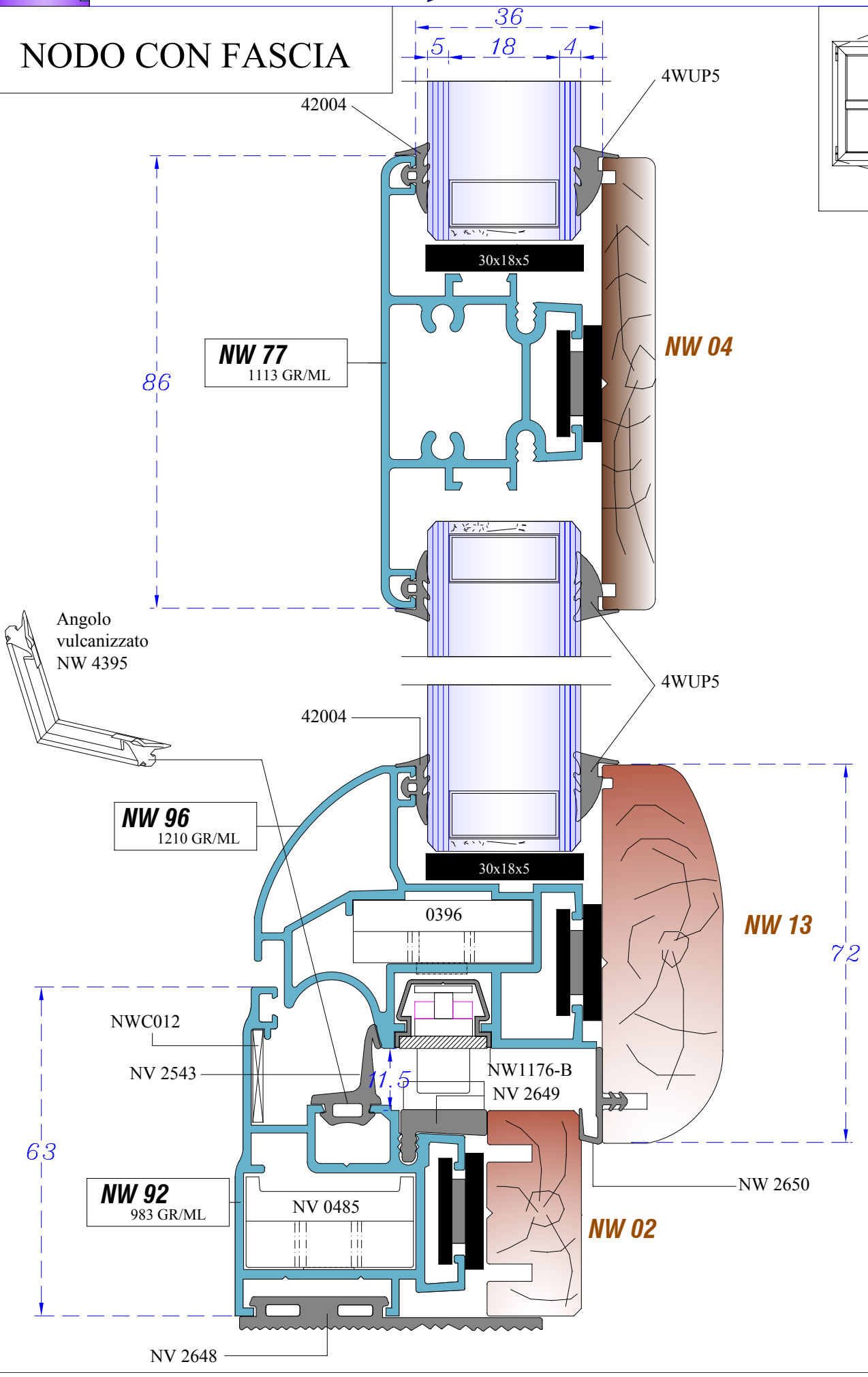

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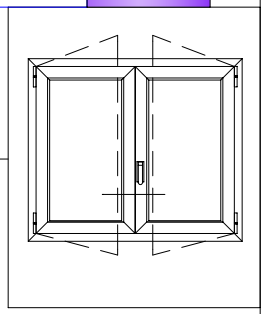
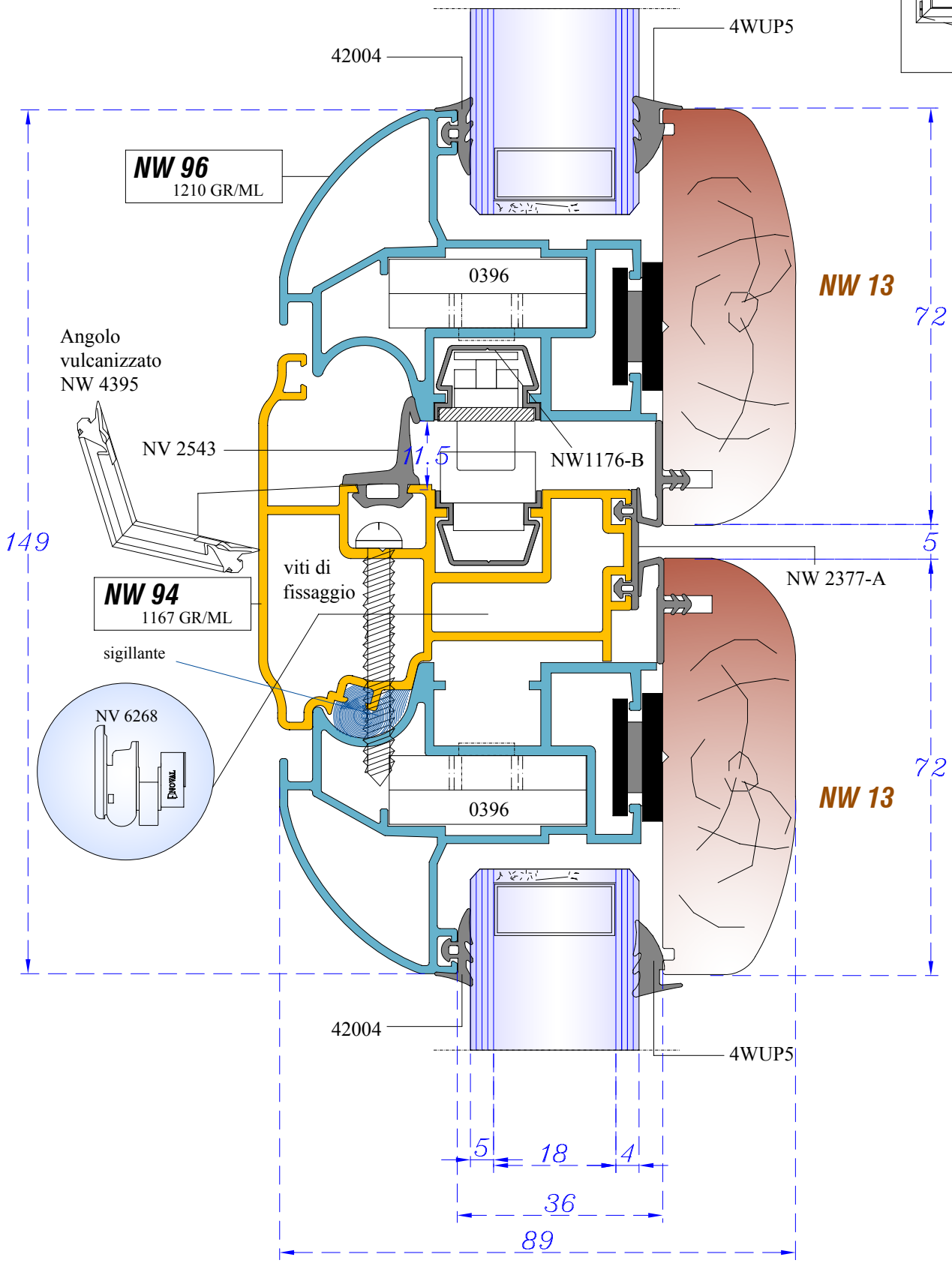
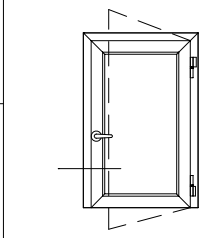
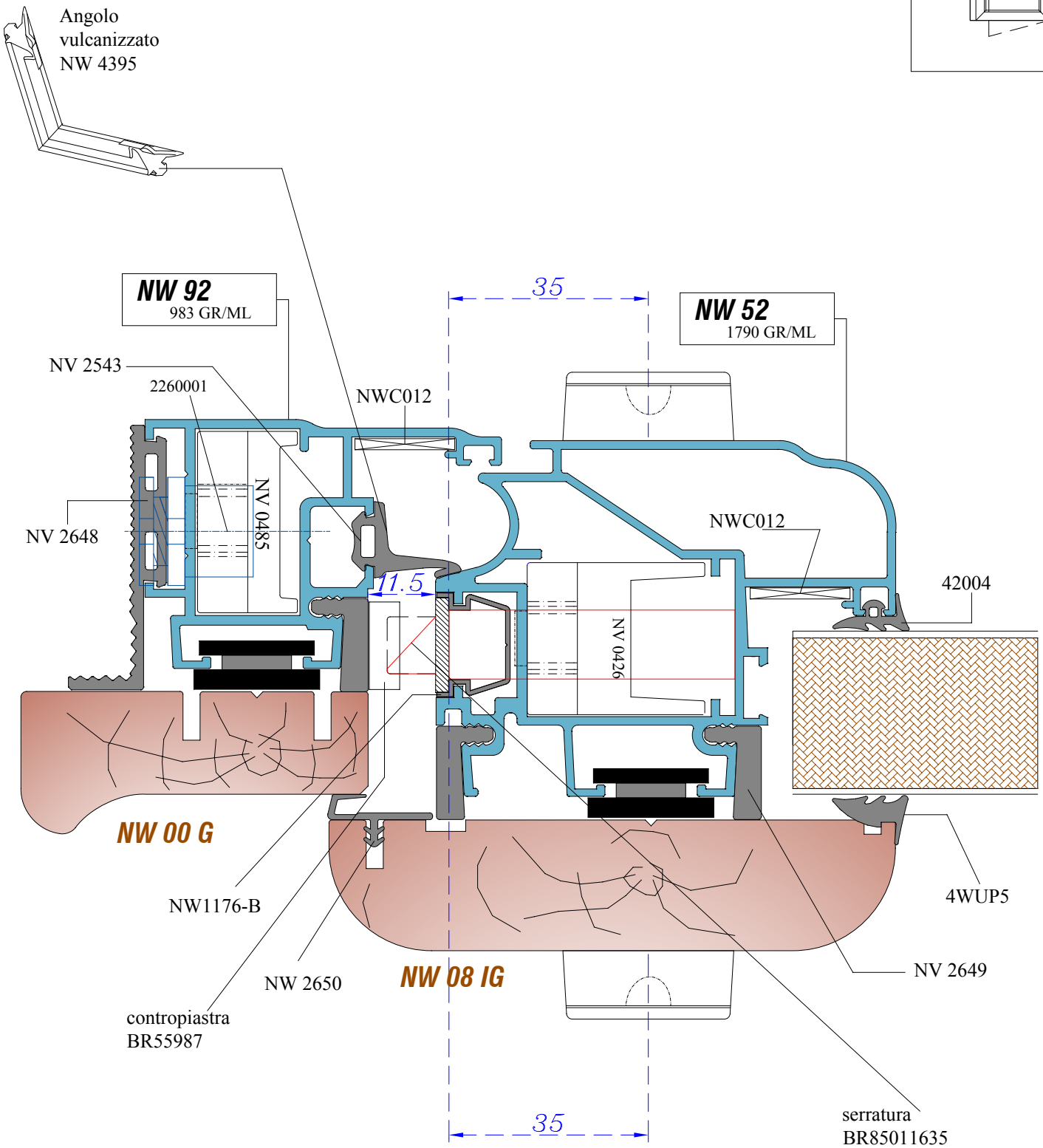


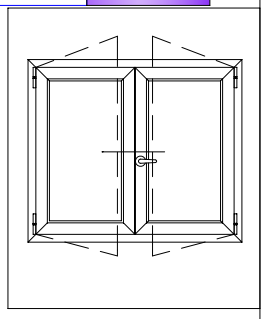


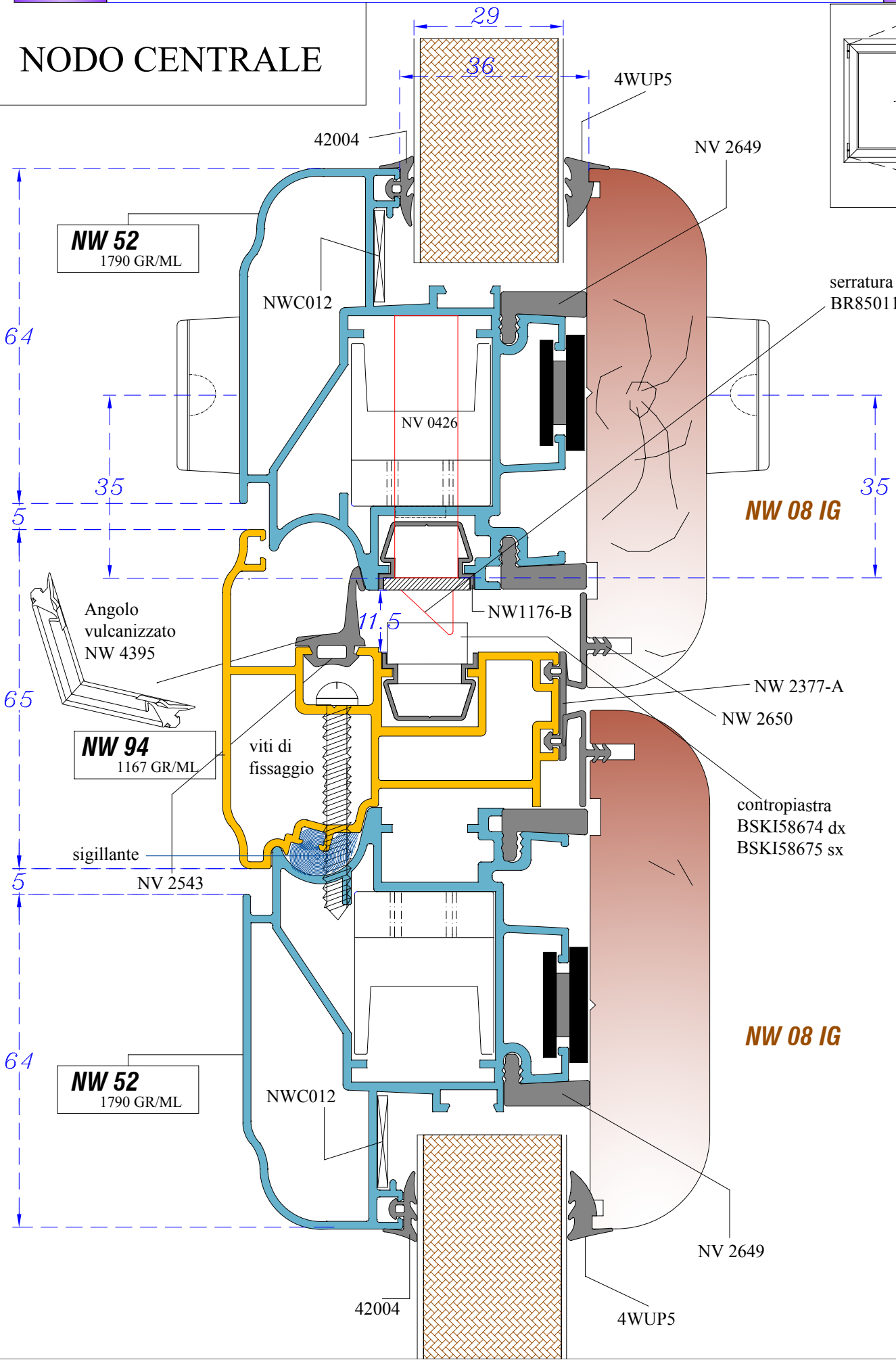
NODO LATERALE



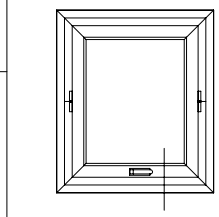


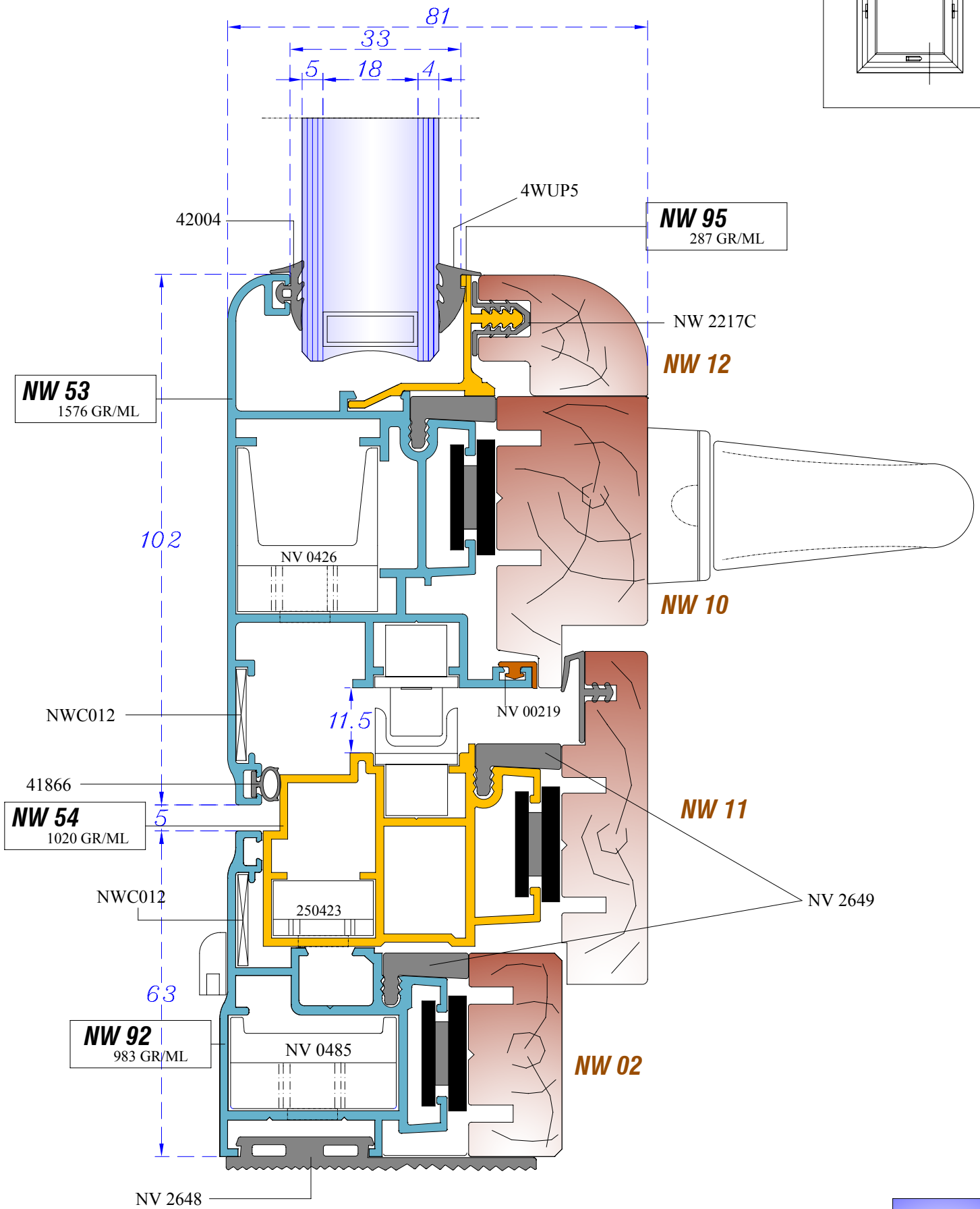
NODO CENTRALE



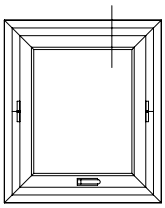


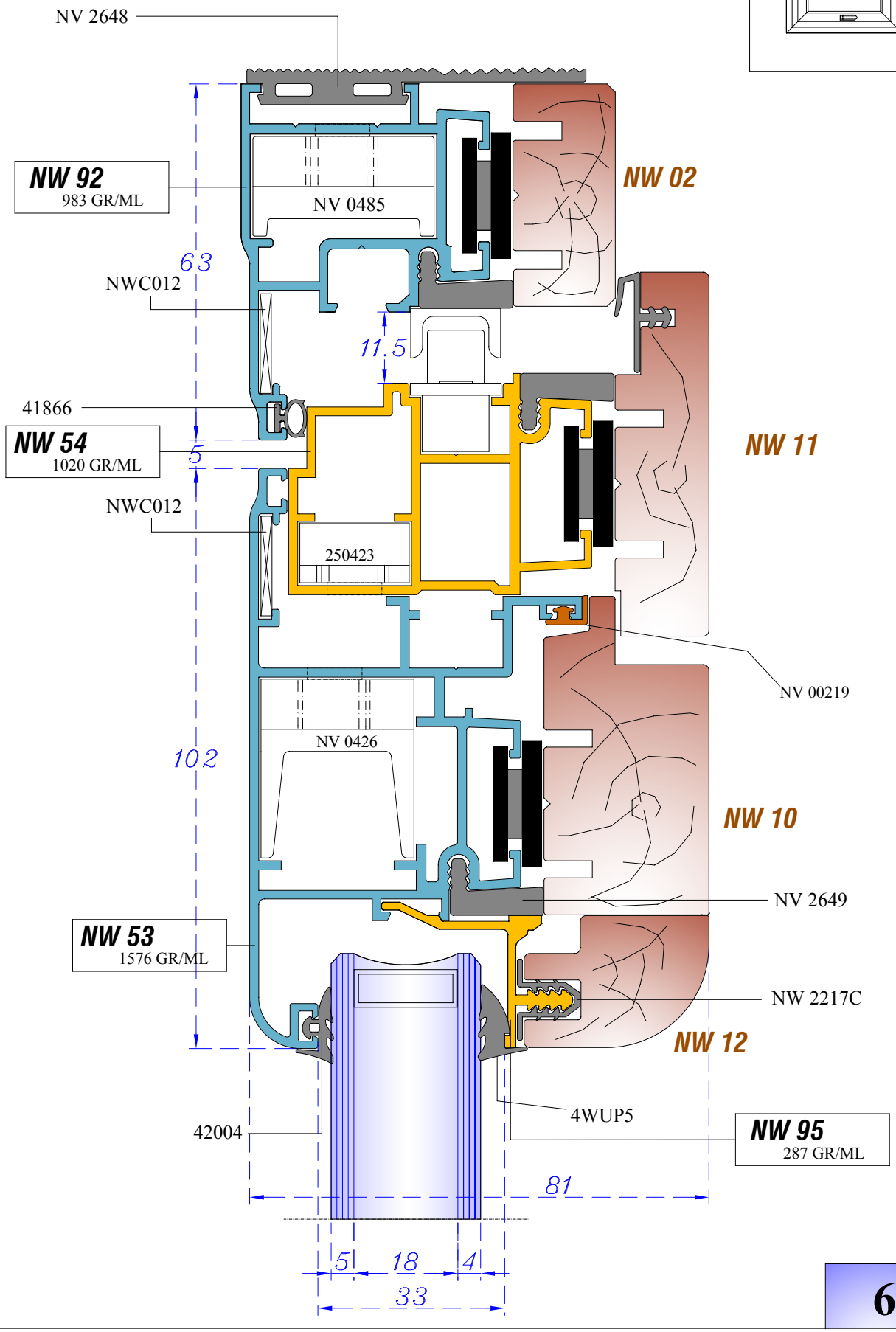
BILICO NODO INFERIORE





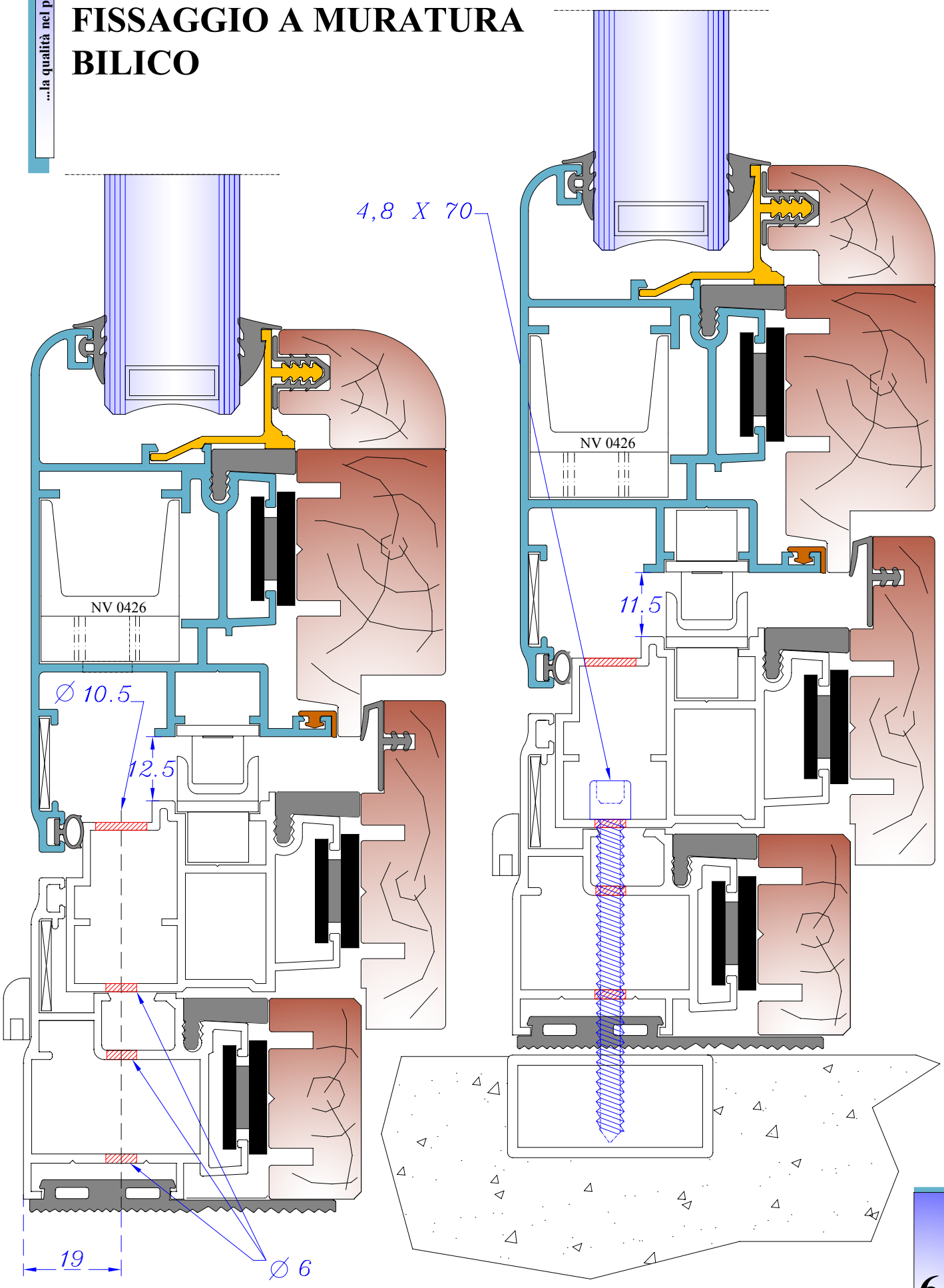
BILICO NODO SUPERIORE



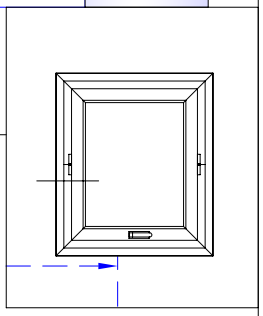


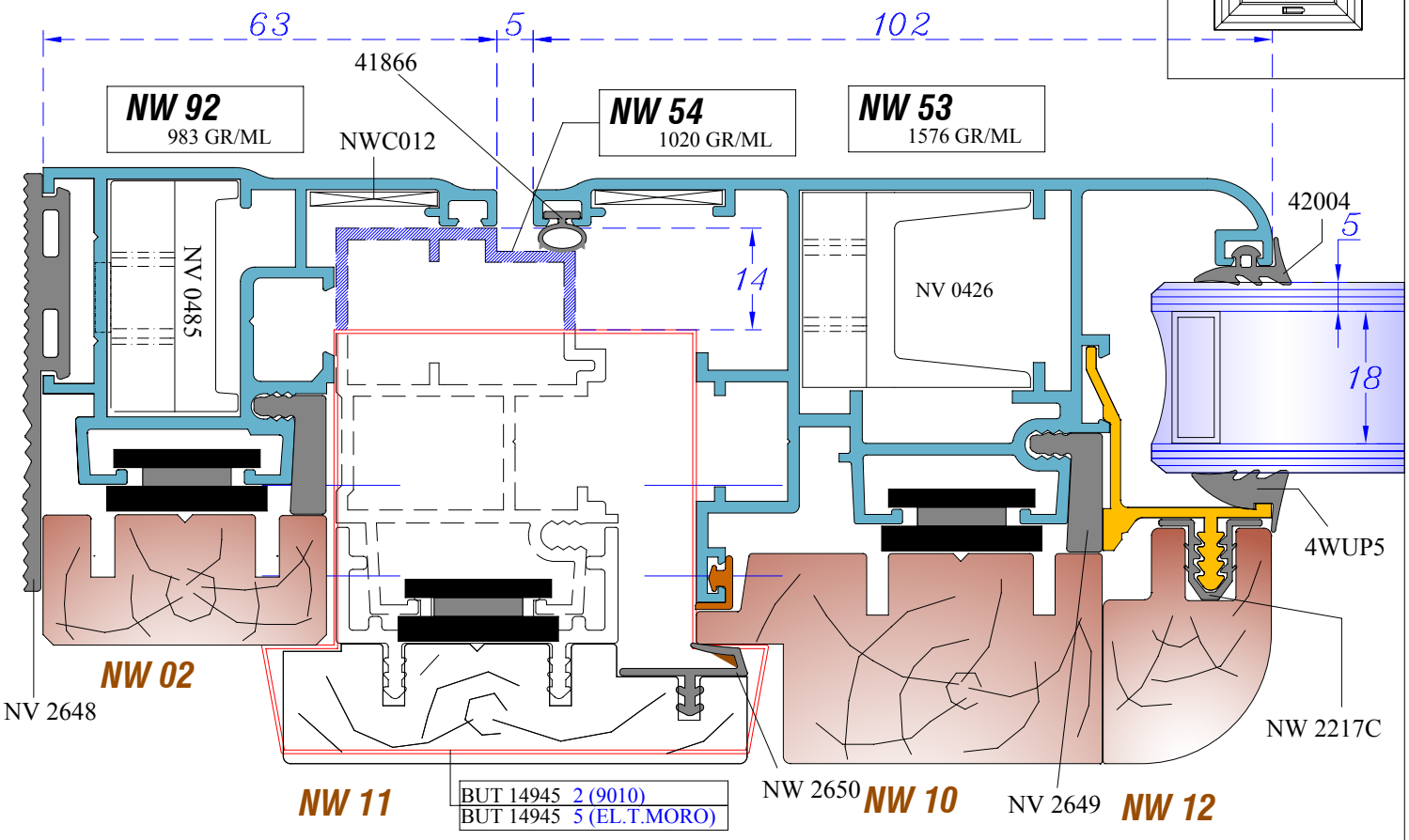
NOVAL SYSTEM s.r.l.

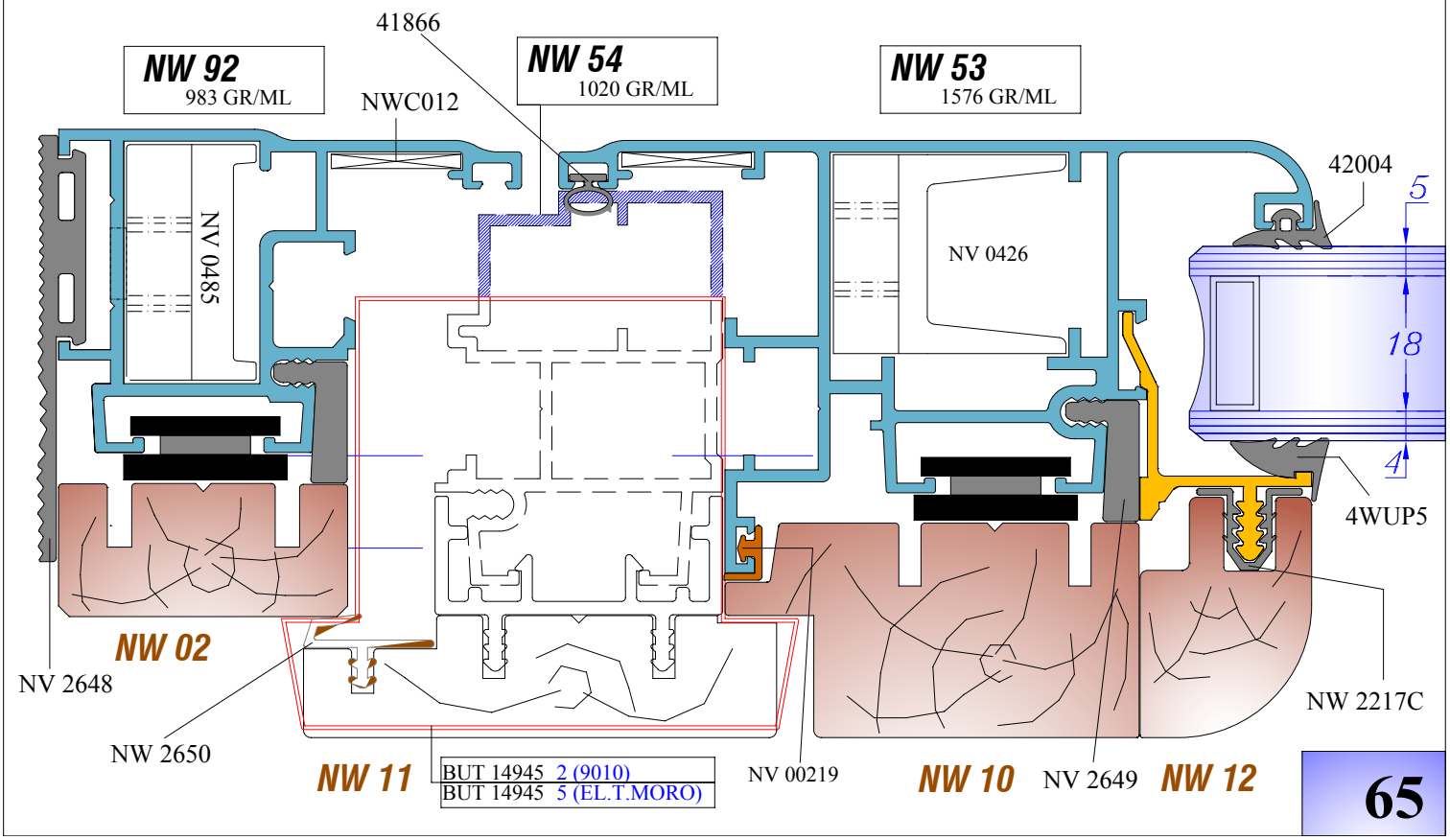
FISSAGGIO A MURATURA
BILICO



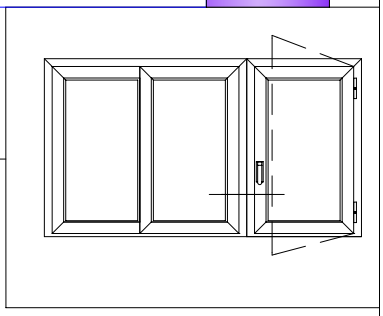
BILICO NODI LATERALI

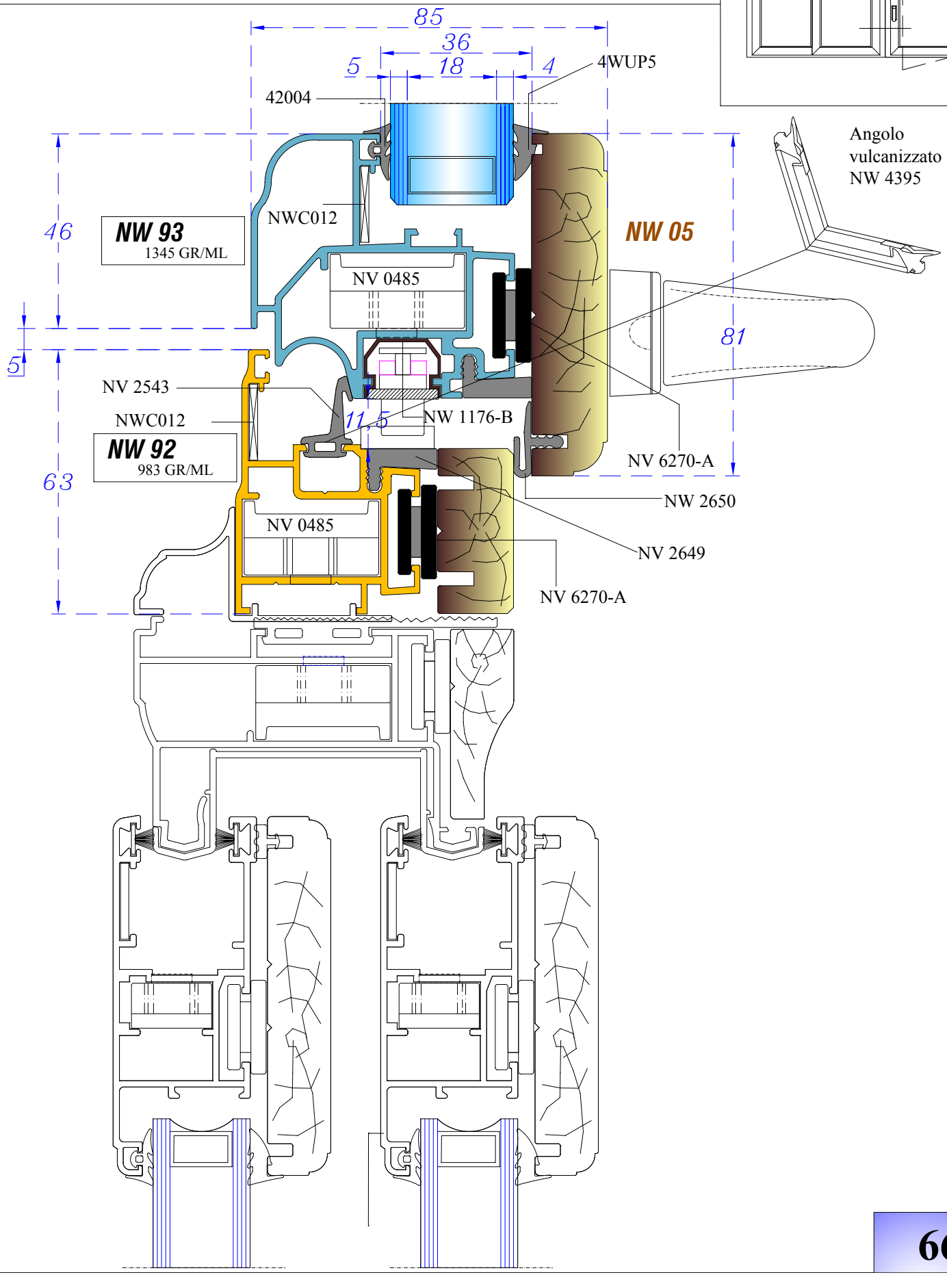






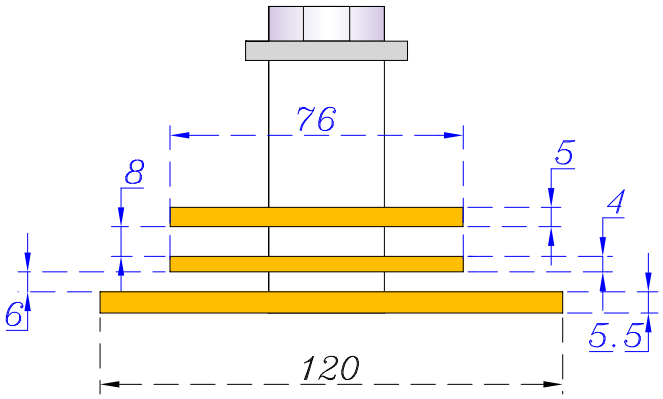
NODO CON SLIDE LIGHT

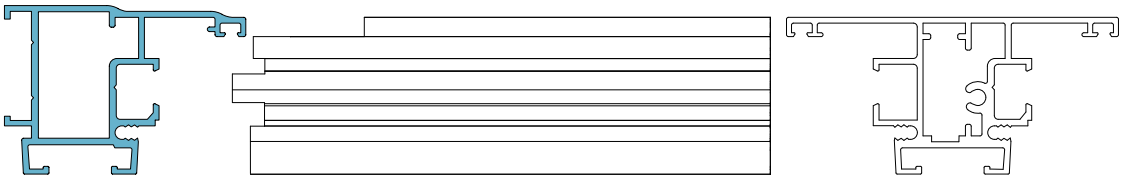




NOVAL SYSTEM s.r.l.

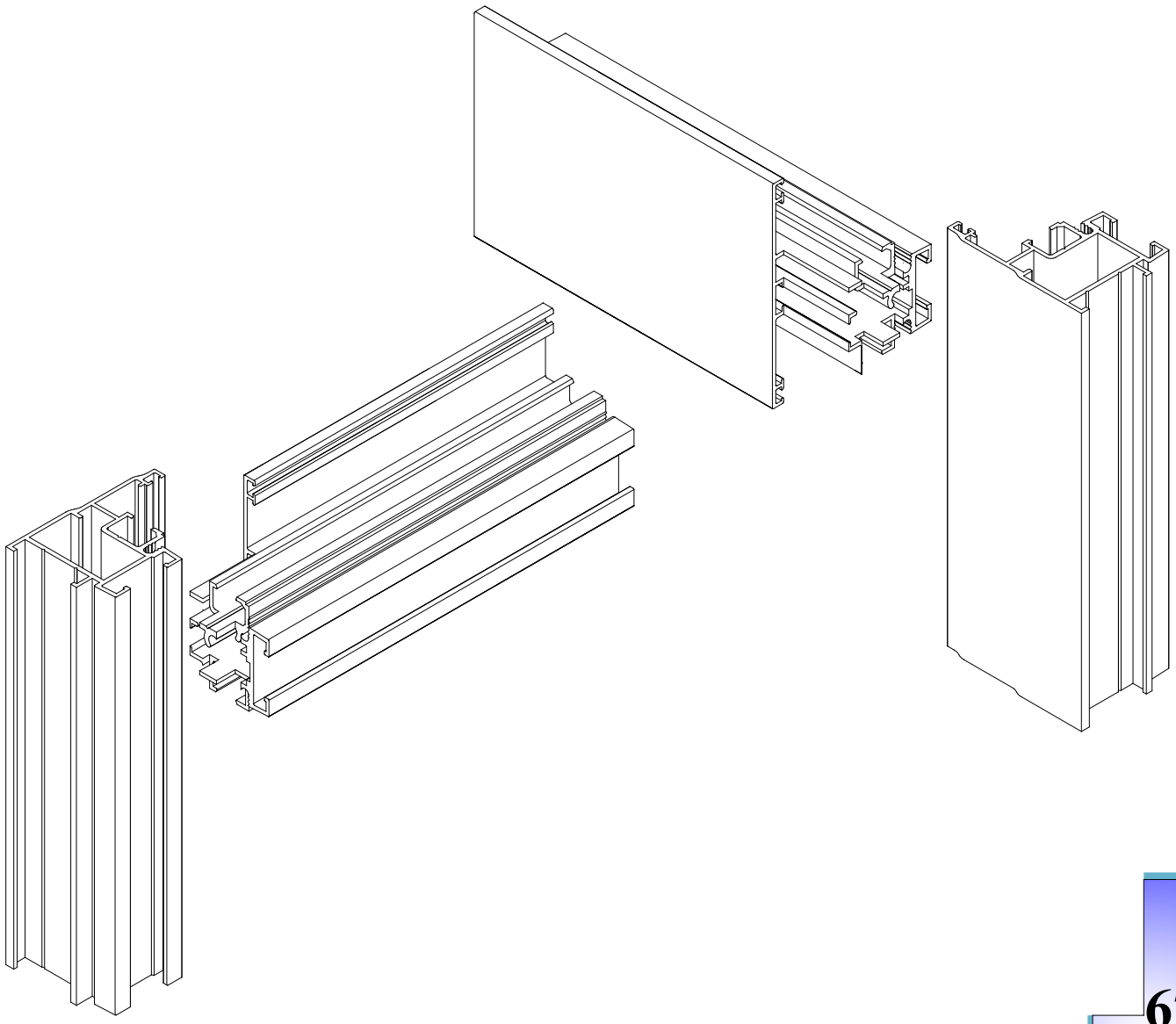
NW FRESE





NW 92

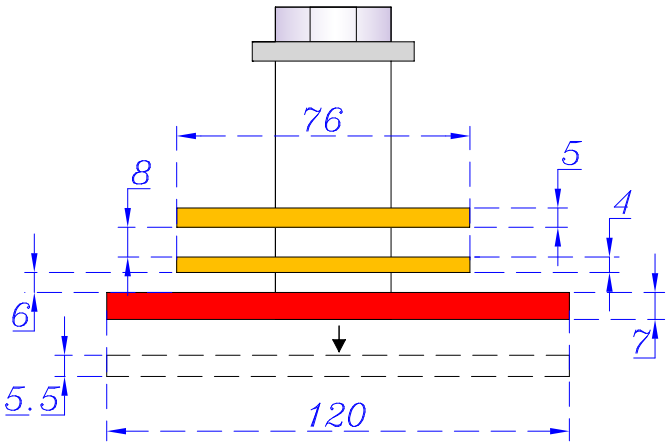
NW 80

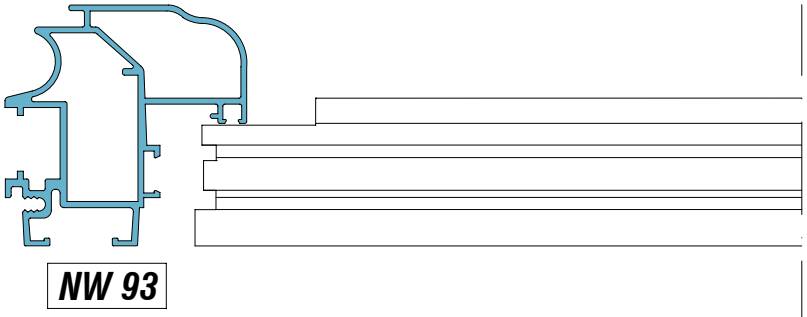


NOVAL SYSTEM s.r.l.

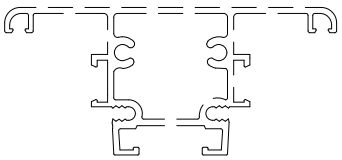
NW FRESE

PER QUESTO TIPO DI LAVORAZIONE, SOSTITUIRE IL DISCO (120 X 5.5) CON IL DISCO (120 X 7).

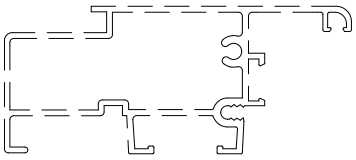




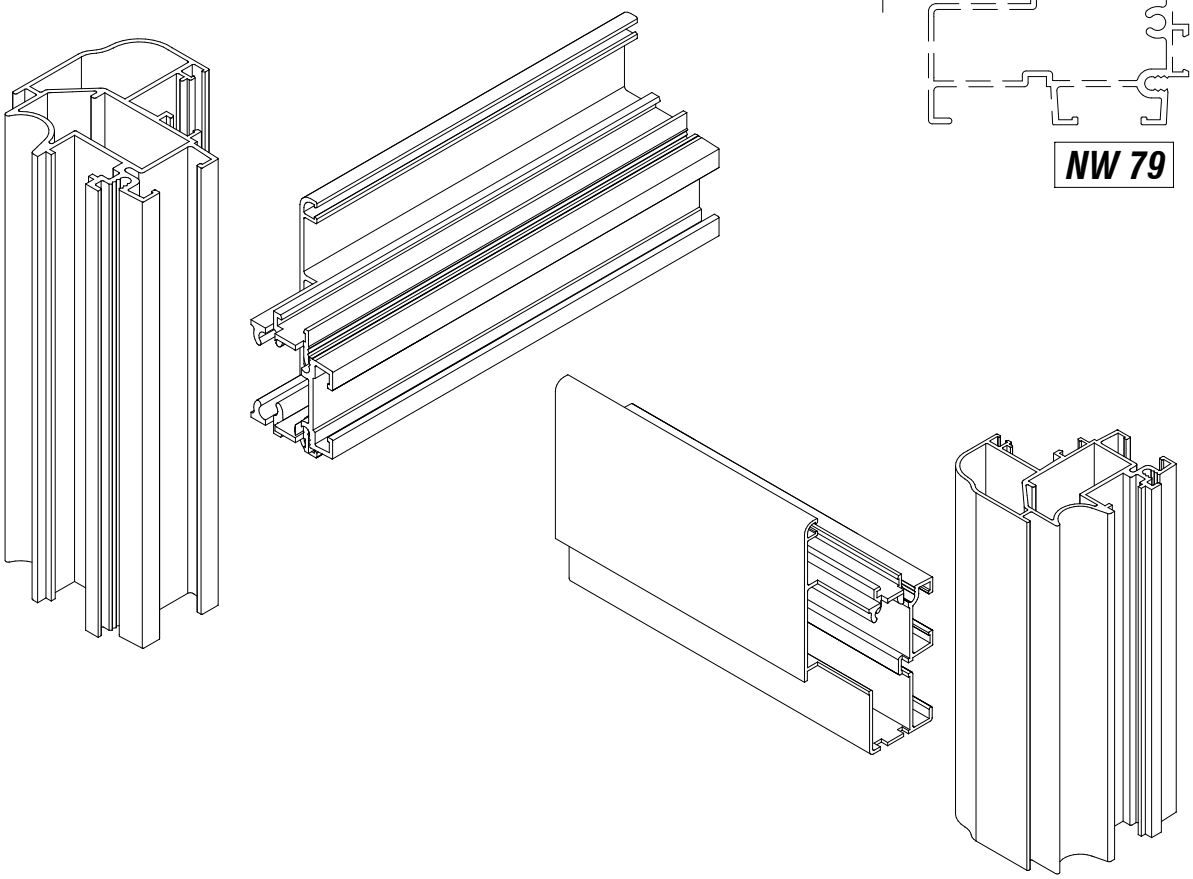
NW 93



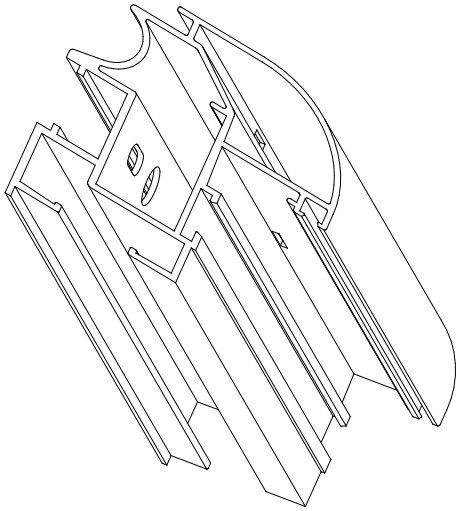
NW 77

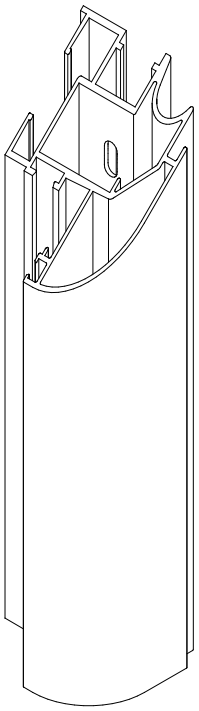


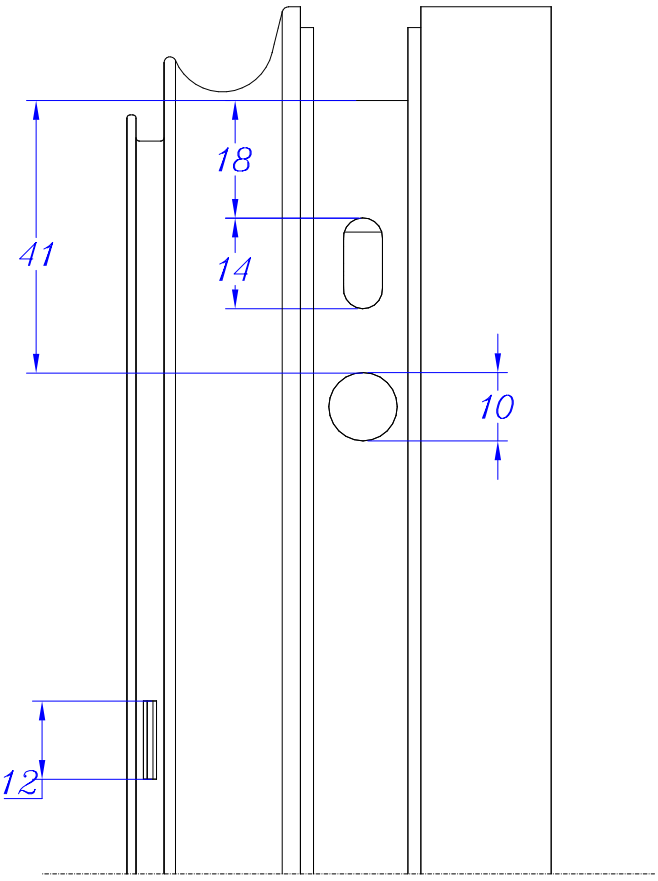
NW 79

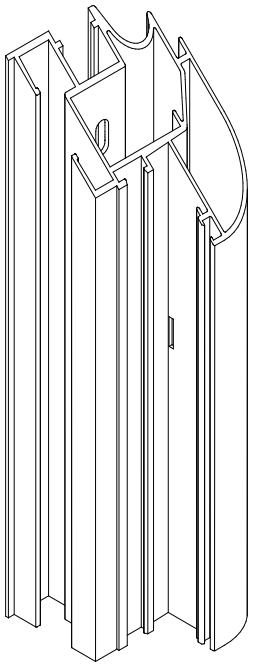


Foro Squadretta su Anta

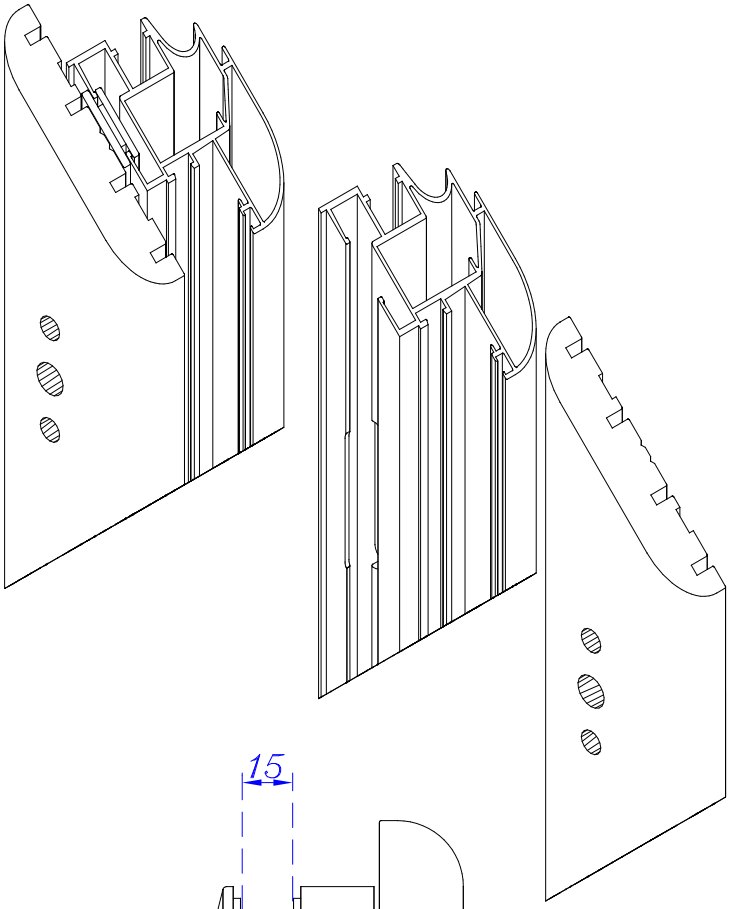


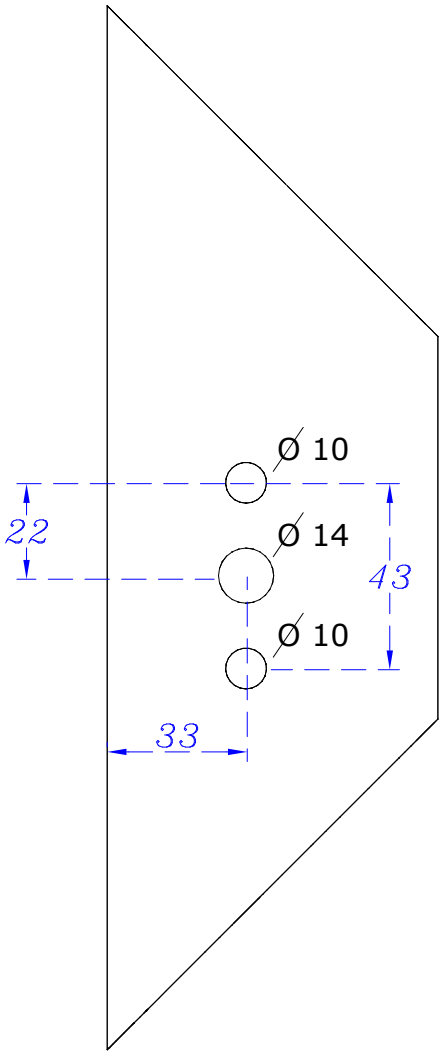


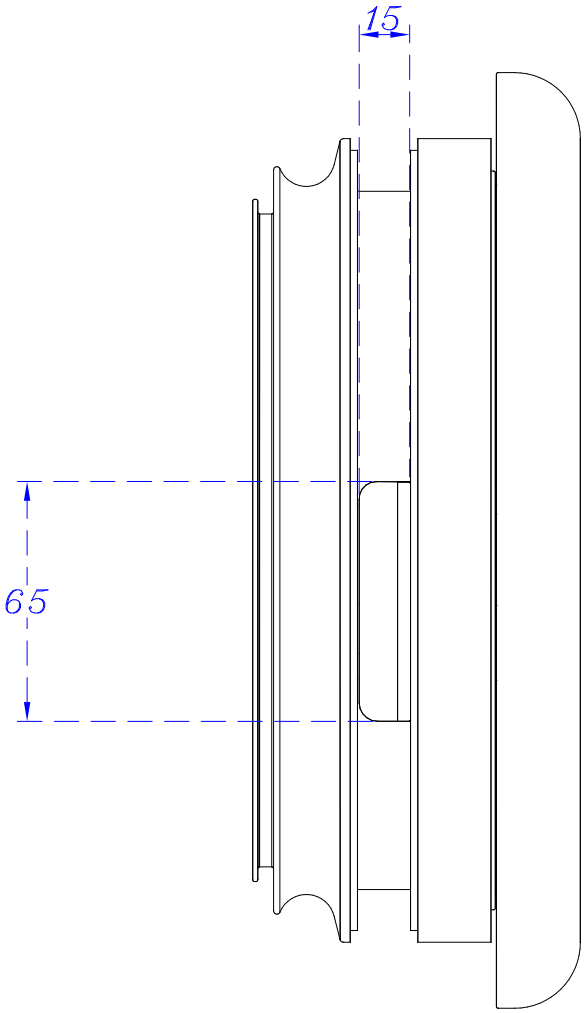




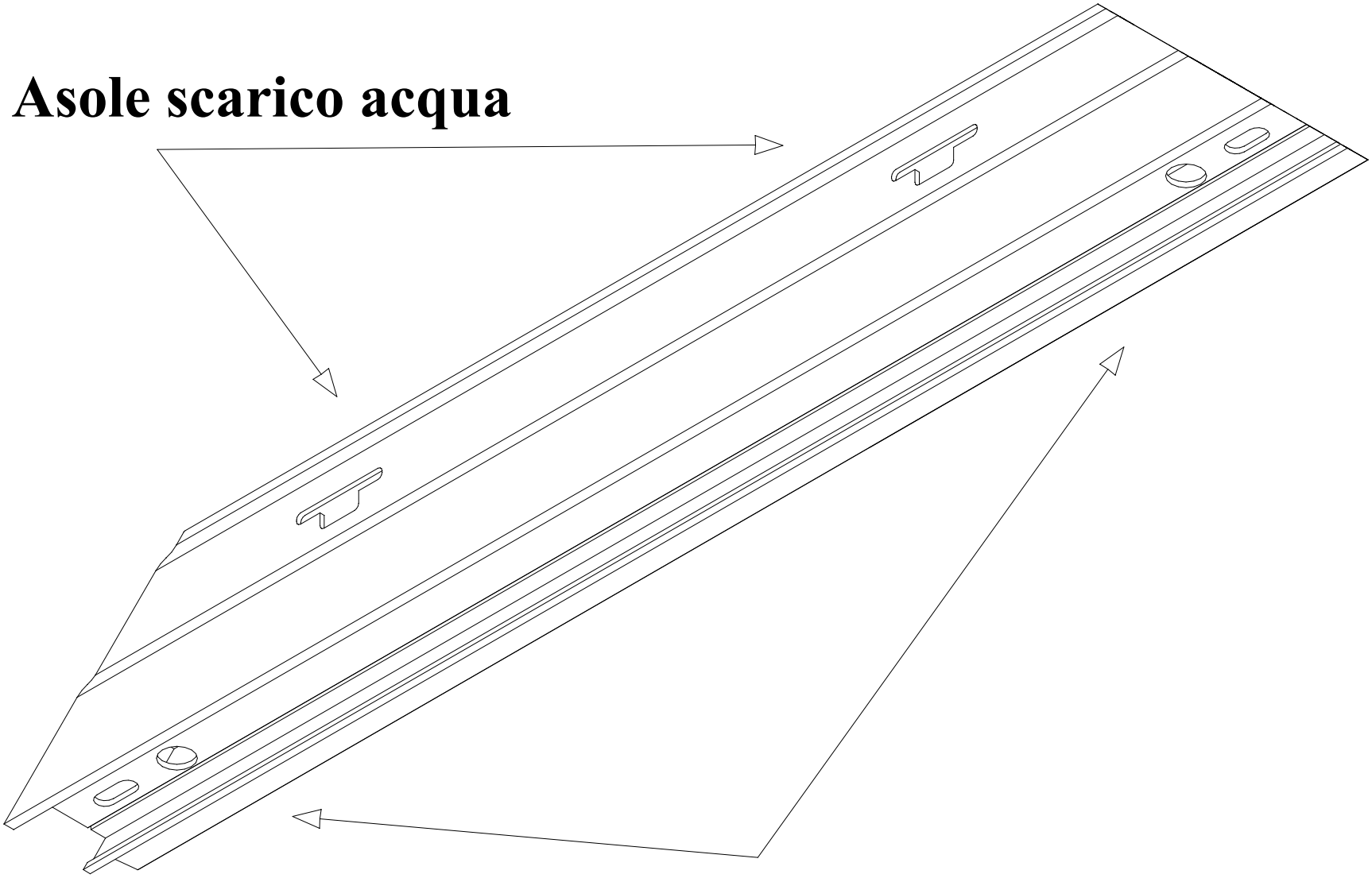
Fori per Maniglia





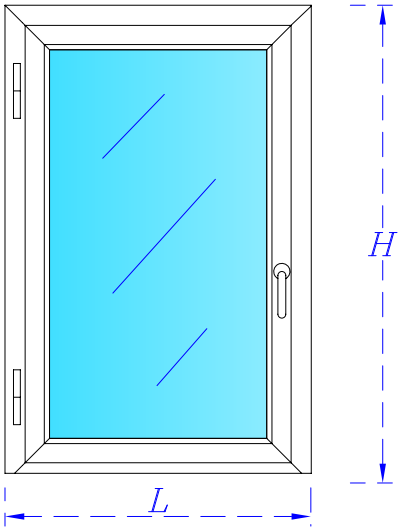


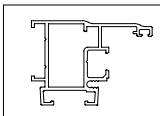
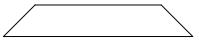
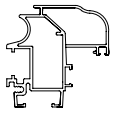
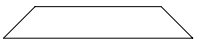
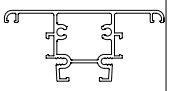
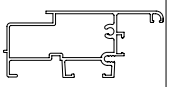
Asole scarico acqua



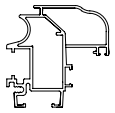
Foro Squadretta

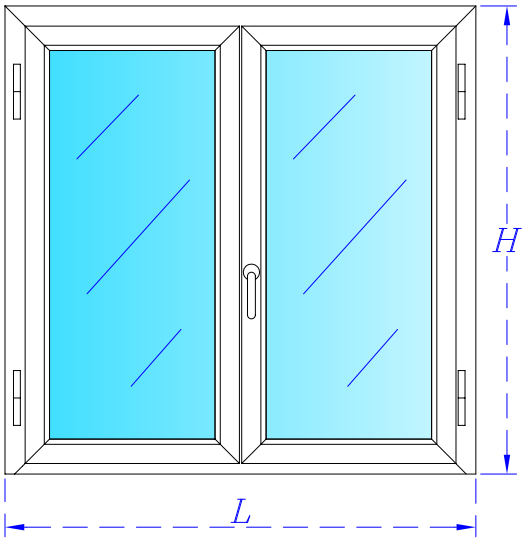
LISTE DI TAGLIO ALLUMINIO

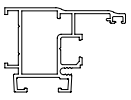
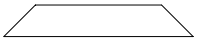
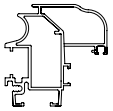
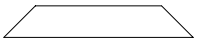
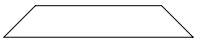
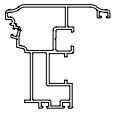
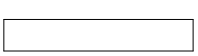
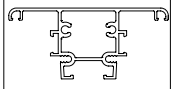
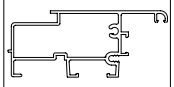


	SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI		NW 92	L	
			H	
ANTA		NW 93	L - 102	
			H - 102	
TRAV.		NW 77	L - 180.5	
Z.RIP.		NW 79	L - 180.5	

TAGLIO ANTA CON L'UTILIZZO SOGLIA

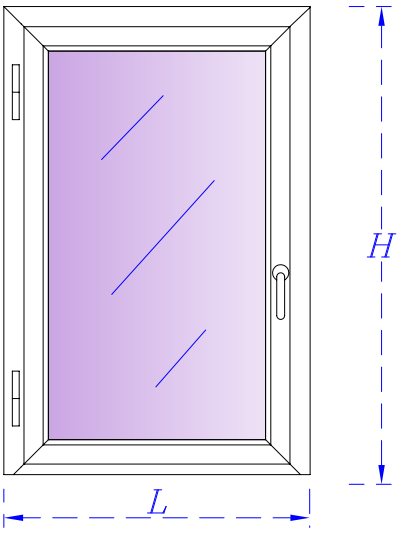
ANTA		NW 93	H - 73	
SOGLIA		NW 78	L - 77.5	

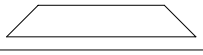
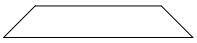
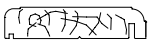
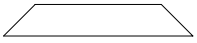
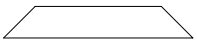
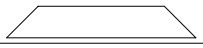
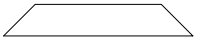


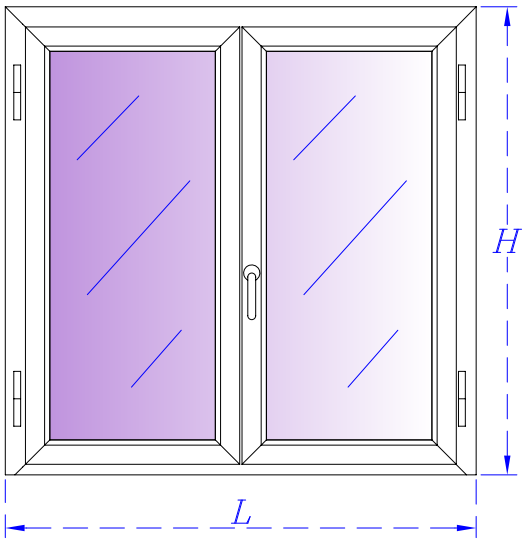
TELAI		NW 92	L	
			H	
ANTA		NW 93	L/2 - 72	
			H - 102	
RIP.		NW 94	H - 135	
TRAV.		NW 77	L - 301 / 2	
Z.RIP.		NW 79	L - 301 / 2	

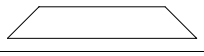
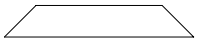
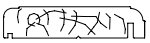
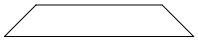
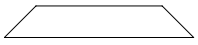
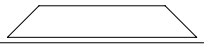
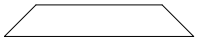
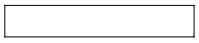
VERIFICARE LE QUOTE DI TAGLIO IN FASE DI INIZIO LAVORO

LISTE DI TAGLIO LEGNO



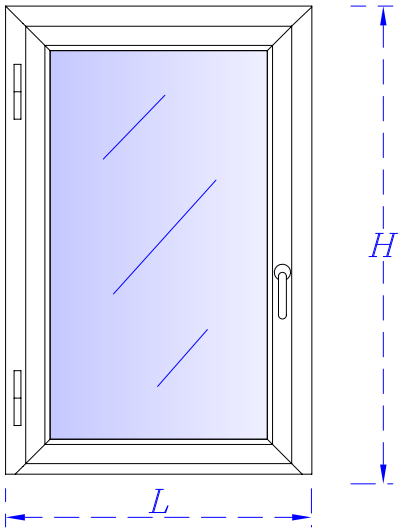
	SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI		NW 02	L	
			H	
		NW 01	L + 37	
ANTA			L + 37	
		NW 05	L - 65	
			H - 65	
ANTA		NW 01	L - 65	
			H - 65	
FERM.		NW 03	L - 181	
			H - 181	
		NW 95	L - 228	
			H - 228	

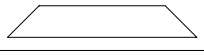
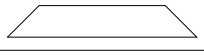
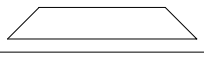
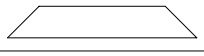
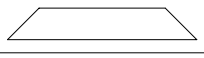
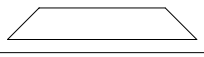
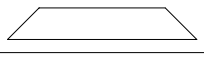
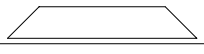
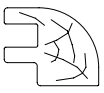
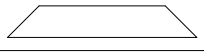
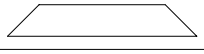


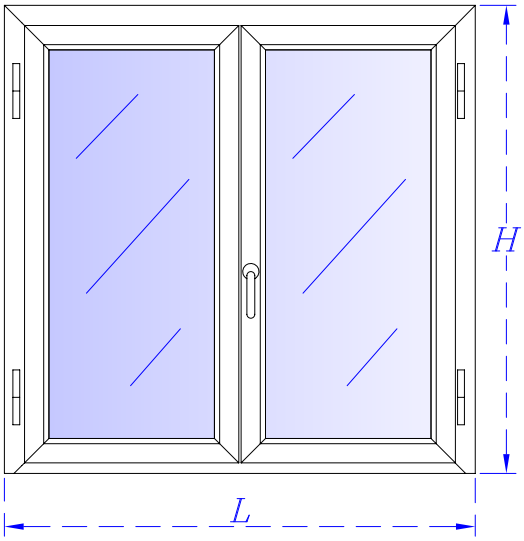
TELAI		NW 02	L	
			H	
		NW 01	L + 37	
ANTA			H + 37	
		NW 05	L - 70 / 2	
			H - 65	
ANTA		NW 01	L - 70 / 2	
			H - 65	
FERM.		NW 03	L - 302 / 2	
			H - 181	
		NW 95	L - 396 / 2	
			H - 228	

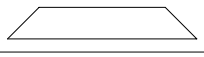
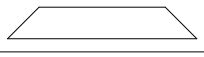
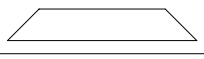
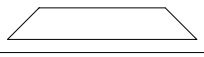
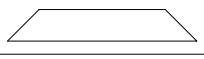
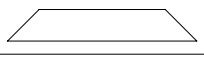
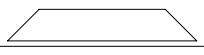
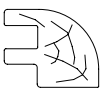
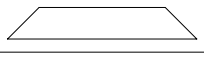
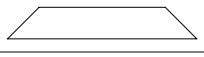
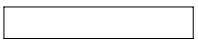
VERIFICARE LE QUOTE DI TAGLIO IN FASE DI INIZIO LAVORO

LISTE DI TAGLIO LEGNO



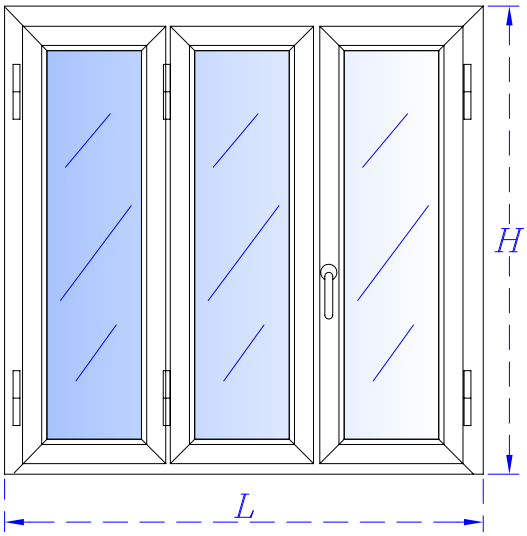
	SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI		NW 02	L	
			H	
		NW 01G	L + 44	
			H + 44	
ANTA		NW 05G	L - 65	
			H - 65	
ANTA		NW 01G	L - 65	
			H - 65	
FERM.		NW 03G	L - 181	
			H - 181	
		NW 95	L - 228	
			H - 228	

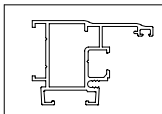
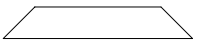
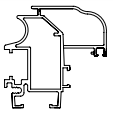
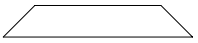
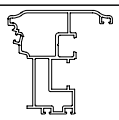
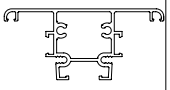
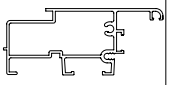


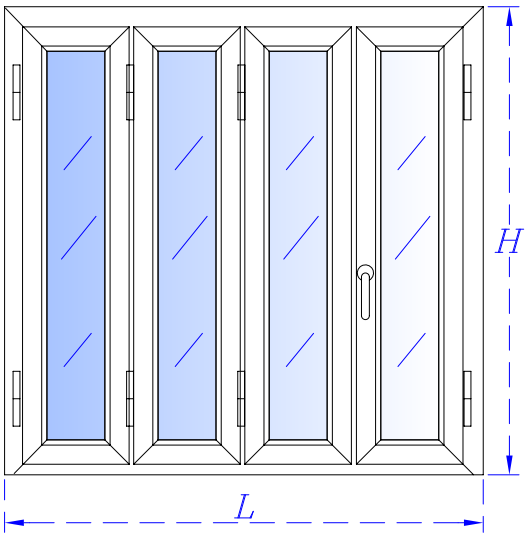
TELAI		NW 02	L	
			H	
		NW 01G	L + 44	
			H + 44	
ANTA		NW 05G	L - 70 / 2	
			H - 65	
ANTA		NW 01G	L - 70 / 2	
			H - 65	
FERM.		NW 03G	L - 302 / 2	
			H - 181	
		NW 95	L - 396 / 2	
			H - 228	

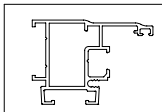
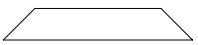
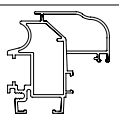
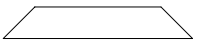
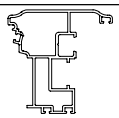
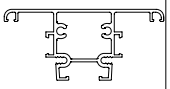
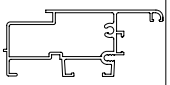
VERIFICARE LE QUOTE DI TAGLIO IN FASE DI INIZIO LAVORO

LISTE DI TAGLIO ALLUMINIO



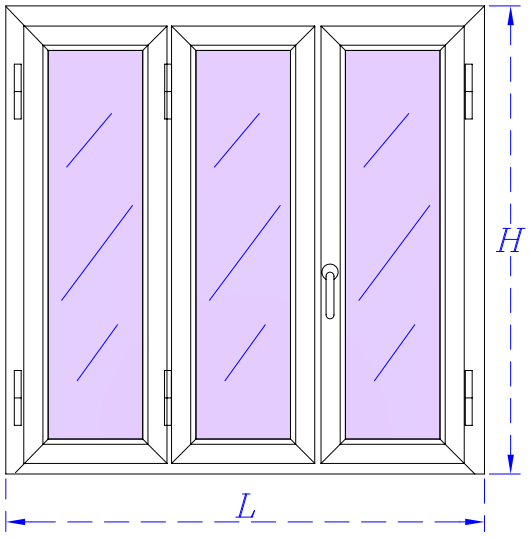
SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI 	NW 02	L	
		H	
ANTA 	NW 93	L - 186 / 3	
		H - 102	
RIP. 	NW 94	H - 135	
TRAV. 	NW 77	L - 421.5 / 3	
Z.RIP. 	NW 79	L - 421.5 / 3	



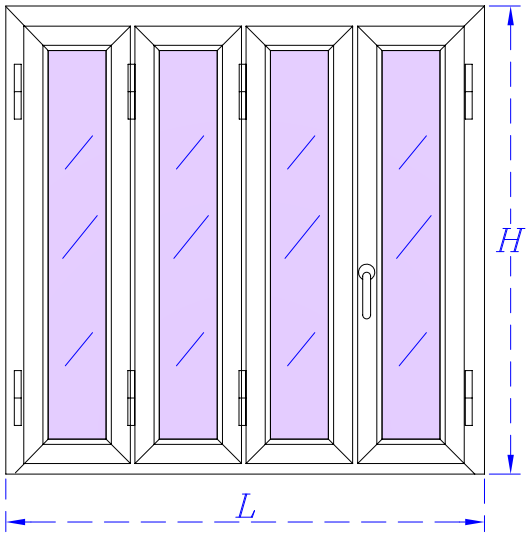
TELAI 	NW 02	L	
		H	
ANTA 	NW 93	L - 228 / 4	
		H - 102	
RIP. 	NW 94	H - 135	
TRAV. 	NW 77	L - 544 /4	
Z.RIP. 	NW 79	L - 544 / 4	

VERIFICARE LE QUOTE DI TAGLIO IN FASE DI INIZIO LAVORO

LISTE DI TAGLIO LEGNO



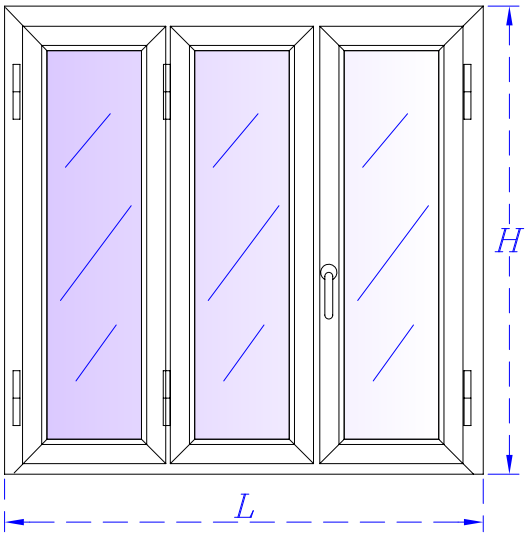
SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI	NW 02	L	
		H	
ANTA	NW 01	L + 37	
		L + 37	
	NW 05	L - 75 / 3	
		H - 65	
ANTA	NW 01	L - 75 / 3	
		H - 65	
FERM.	NW 03	L - 423 / 3	
		H - 181	
	NW 95	L - 564 / 3	
		H - 228	



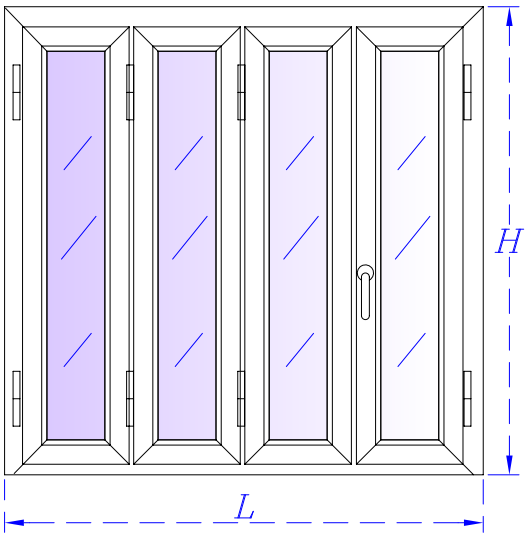
SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI	NW 02	L	
		H	
ANTA	NW 01	L + 44	
		H + 44	
	NW 05	L - 75 / 3	
		H - 65	
ANTA	NW 01	L - 228 / 4	
		H - 65	
FERM.	NW 03	L - 548 / 4	
		H - 181	
	NW 95	L - 736 / 4	
		H - 228	

VERIFICARE LE QUOTE DI TAGLIO IN FASE DI INIZIO LAVORO

LISTE DI TAGLIO LEGNO



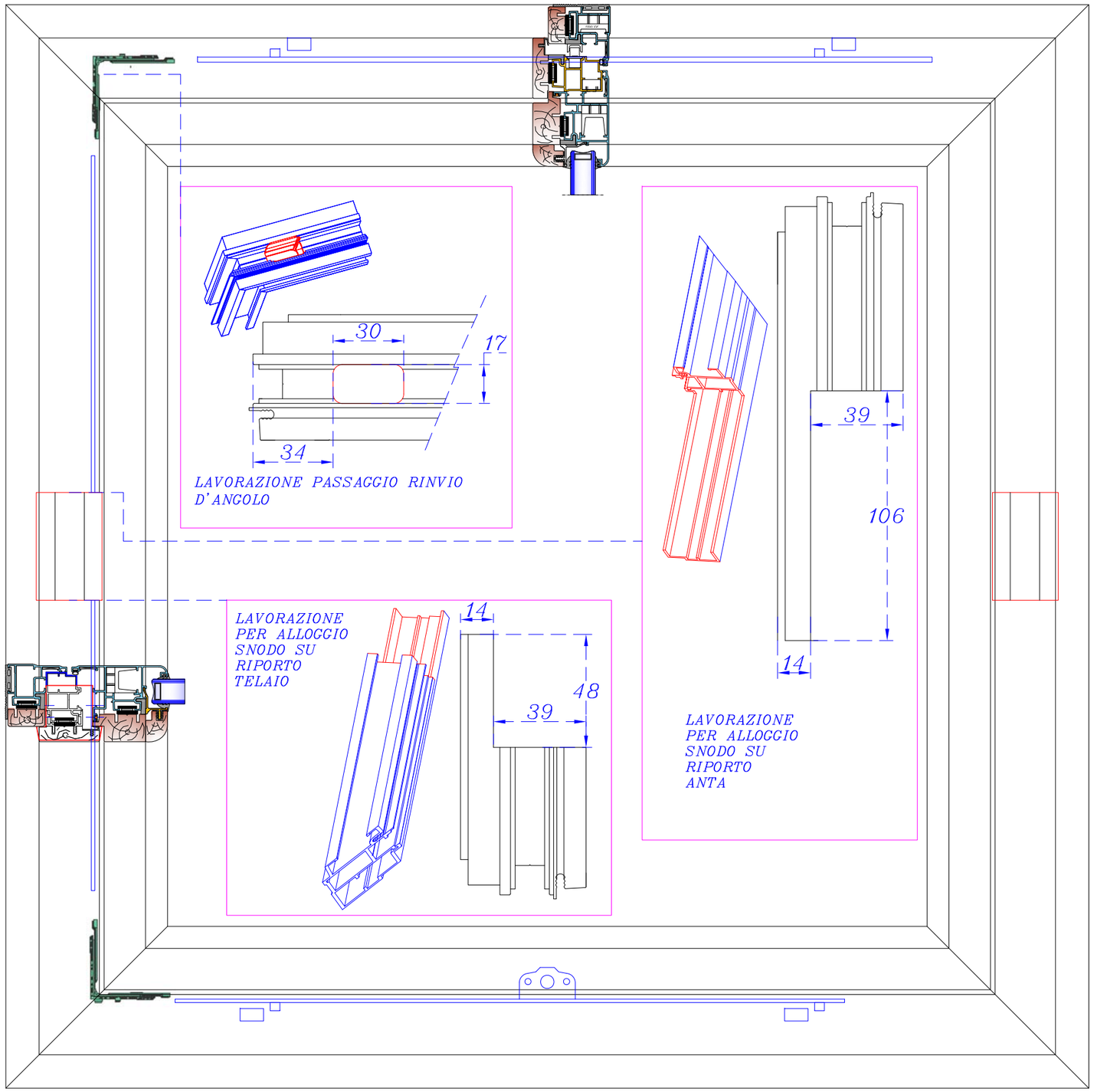
SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI	NW 02	L	
		H	
	NW 01G	L + 44	
		H + 44	
ANTA	NW 05G	L - 75 / 3	
		H - 65	
ANTA	NW 01G	L - 75 / 3	
		H - 65	
FERM.	NW 03G	L - 423 / 3	
		H - 181	
	NW 95	L - 564 / 3	
		H - 228	



SEZIONE	Articolo	TAGLIO	TIP. TAGLIO
TELAI	NW 02	L	
		H	
	NW 01G	L + 44	
		H + 44	
ANTA	NW 05G	L - 80/ 4	
		H - 65	
ANTA	NW 01G	L - 228 / 4	
		H - 65	
FERM.	NW 03G	L - 548 / 4	
		H - 181	
	NW 95	L - 736 / 4	
		H - 228	

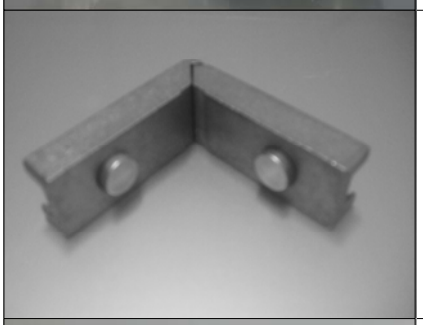
VERIFICARE LE QUOTE DI TAGLIO IN FASE DI INIZIO LAVORO

NOVAL SYSTEM s.r.l.

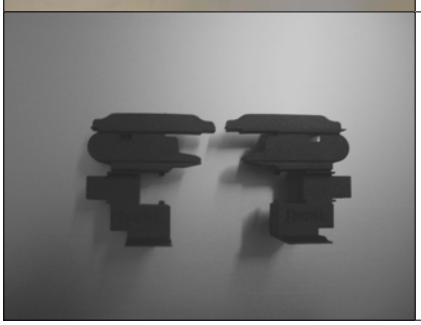


SEZIONE	ARTICOLO	TAGLIO	TIP. TAGLIO	PZ.
	NW 92	L		2
		H		2
	NW 53	L - 136		2
		H - 136		2
	NW 54	L - 103		1
	NW 54	L - 81		1
	NW 54	H : 2 - 23		1 DX 1 SX
	NW 54	H : 2 - 70		1 DX 1 SX
	NW 54	L - 340		2
	NW 54	H - 340		2
	NW 02	L		
		H		
	NW 01G	L + 44		
		H + 44		
	NW 10	L - 180		2
		H - 180		2
	NW 11	L - 68		1
	NW 11	L - 68		1
	NW 11	H : 2 - 110		1 DX 1 SX
	NW 11	H : 2 - 110		1 DX 1 SX
	NW 12	L - 292		2
	NW 12	H - 292		2

NOVAL SYSTEM s.r.l.

SAGOMA	DESCRIZIONE	CODICE	CONF.
	SQUADRETTA TELAIO "T"	NV0404	PZ. 250
	SQUADRETTA TELAIO–ANTA	NV0485	PZ. 250
	SQUADRETTA ANTA MAGGIORATA E ANTA BILICO	NV0426	PZ. 250
	SQUADRETTA RIPORTO SUPERIORE BILICO	NV0440	PZ. 250
	SQUADRETTA RIPORTO INFERIORE BILICO	250423	PZ. 250
	SQUADRETTA ANGOLO VARIABILE TELAIO–ANTA CAMERA PICCOLA	250931	PZ. 250

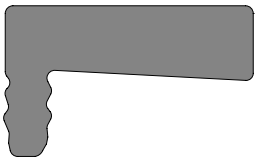
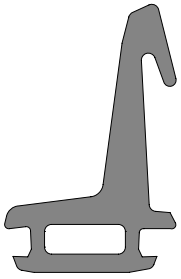
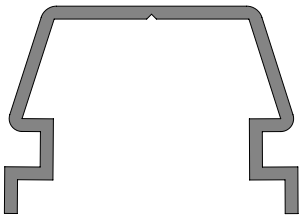
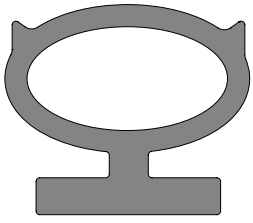
NOVAL SYSTEM s.r.l.

SAGOMA	DESCRIZIONE	CODICE	CONF.
	SQUADRETTA ALLINEAMENTO	NWC012	PZ. 250
	SQUADRETTA PER ANTA NW 96	0396	PZ. 250
	TASSELLO UNIONE LEGNO ALLUMINIO	NV6270-A	PZ. 500
	CAPPETTA COPRIFORO DRENAGGIO	46100	PZ. 150
	MARTELLINA	2332148	PZ. 10
	TAPPI RIPORTO	NV6268	CP. 1

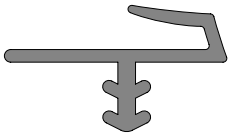
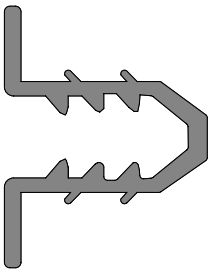
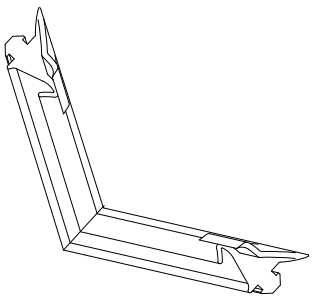
NOVAL SYSTEM s.r.l.

SAGOMA	DESCRIZIONE	CODICE	CONF.
	REGISTRO TELAIO	291010	PZ. 200
	CILINDRO	880965557	PZ. 1
	DOPPIA MANIGLIA	HD2913250	PZ. 1
	QUADRO PER DOPPIA MANIGLIA	HS519187	PZ. 1

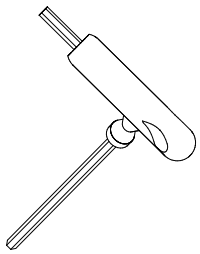
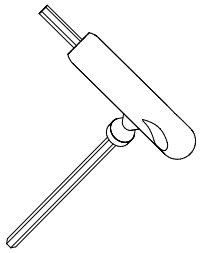
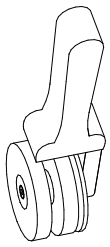
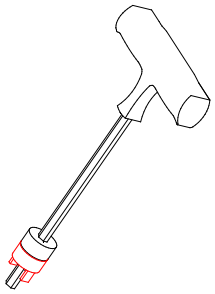
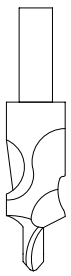
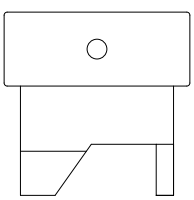
NOVAL SYSTEM s.r.l.

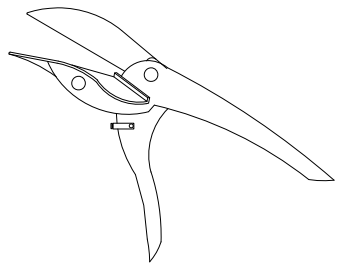
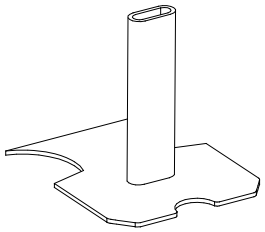
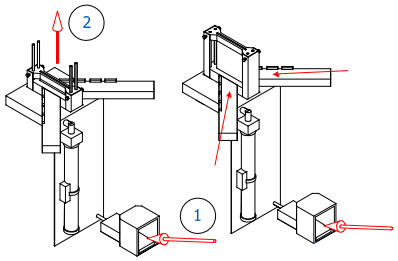
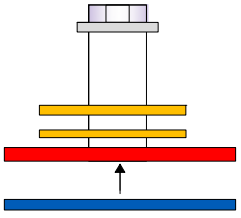
SAGOMA	DESCRIZIONE	CODICE	CONF.
	ISOLAMENTO TELAIO MURO LATERALE E SUPERIORE	NV 2648	ML. 50
	ISOLAMENTO TELAIO–LEGNO	NV 2649	ML. 80
	TENUTA CENTRALE	NV2543	ML. 30
	ISOLAMENTO FERRAMENTA	NW1176–B	ML. 500
	BATTUTA ANTA BILICO	41866	ML. 250
	ATTESA VETRO	42004	ML. 150

NOVAL SYSTEM s.r.l.

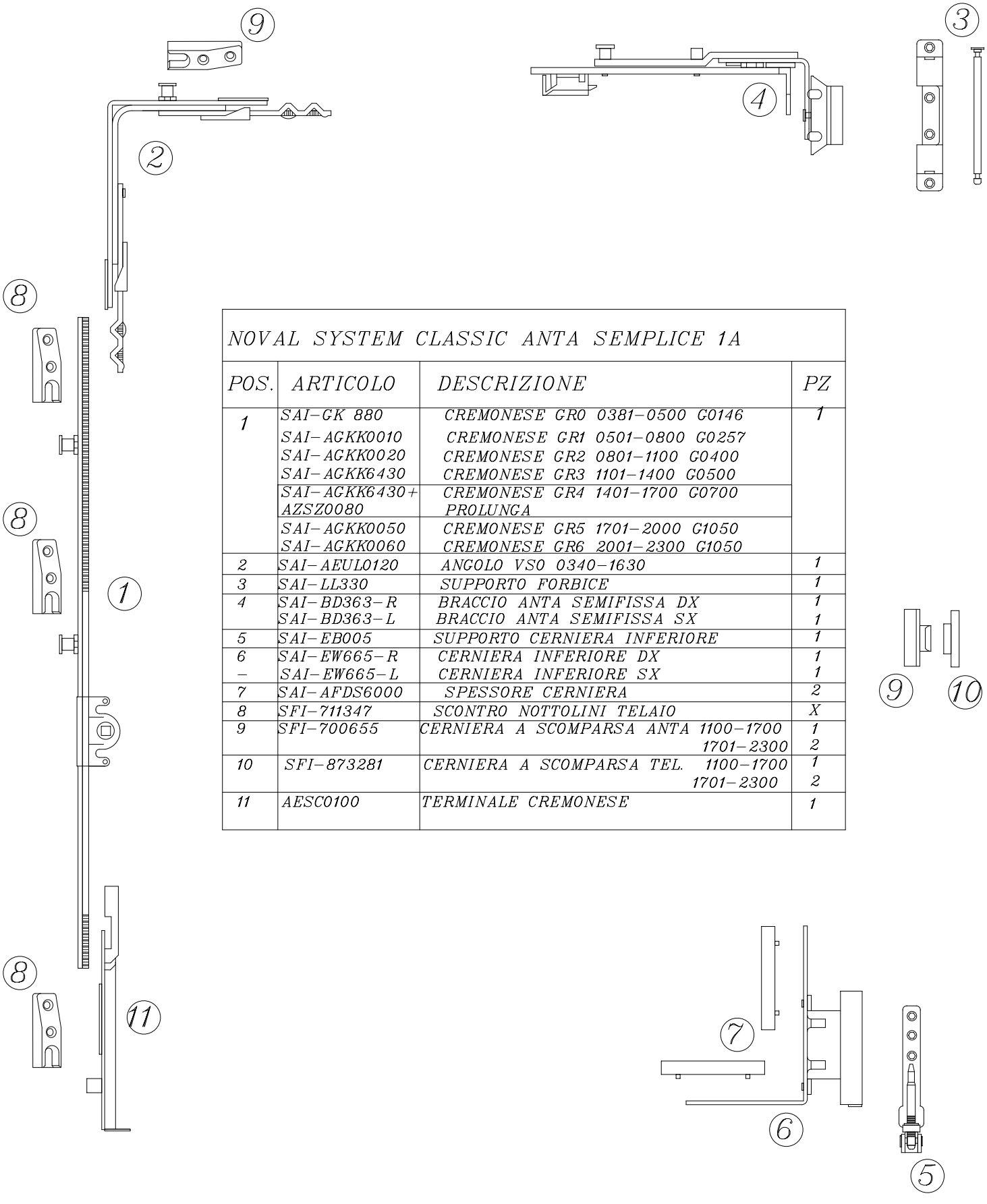
SAGOMA	DESCRIZIONE	CODICE	CONF.
	GUARNIZIONE DI BATTUTA	NW 2650	ML. 40
	GUARNIZIONE RIPORTO CENTRALE	NW 2377-A	ML. 200
	ISOLAMENTO FERMAVETRO	NW 2217C	ML. 150
	GUARBIZIONE FERMAVETRO	4WUP5	ML. 120
	ANGOLO VULCANIZZATO	NV 4395	PZ. 100

NOVAL SYSTEM s.r.l.

SAGOMA	DESCRIZIONE	CODICE	CONF.
	*CHIAVE - ESAGONALE MM 5 ACCIAIO TEMPERATO IN NYLON*	**2021.2**	*PZ. 1*
	*CHIAVE - ESAGONALE MM 5 ACCIAIO TEMPERATO IN NYLON*	**2022.2**	*PZ. 1*
	*RULLO INFILA GUARNIZIONE*	**1103001**	*CAD.*
	*CHIAVINO DI ASSEMBLAGGIO PER REGISTRO COD.2260001*	**RH008**	*CAD.*
	*PUNTA PER RAPID BLOCK Z/P*	**RP019**	*CAD.*
	*LAMATORE PER PUNTA COD. RP19*	**RP023**	*CAD.*

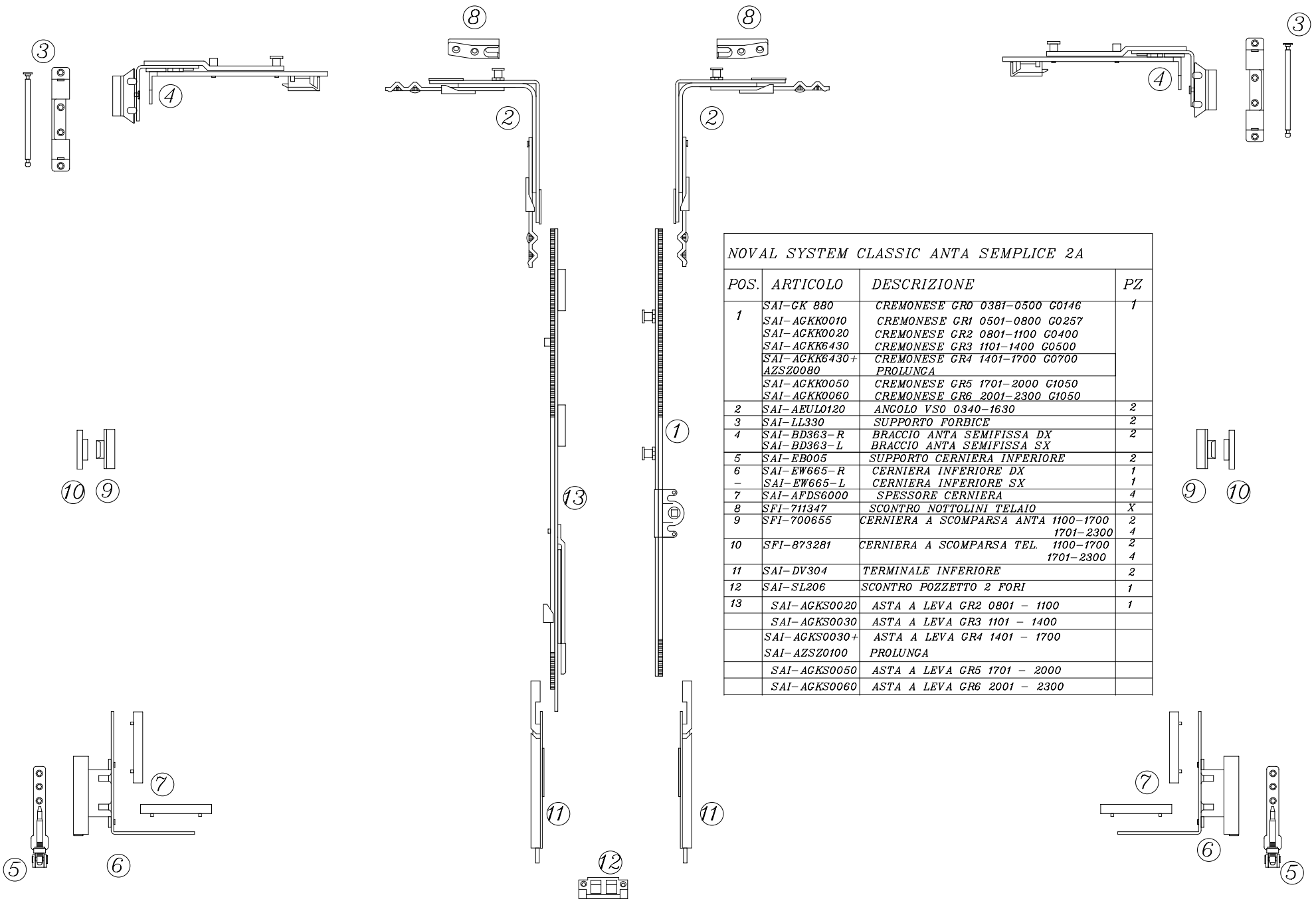
SAGOMA	DESCRIZIONE	CODICE	CONF.
	*FORBICI IN METALLO, PER GUARNIZIONI*	**0349**	*PZ. 1*
	*CHIAVE PER I TASSELLI*	**46060**	*PZ. 1*
	*SIGILLATRICE*	**TK. 259**	*PZ. 1*
	PUNZONATRICE	**TK 280NV1**	*PZ. 1*
	*GRUPPO FRESA PER TELAIO E ANTA*	**NW FRESE**	*PZ. 1*

NOVAL SYSTEM s.r.l.



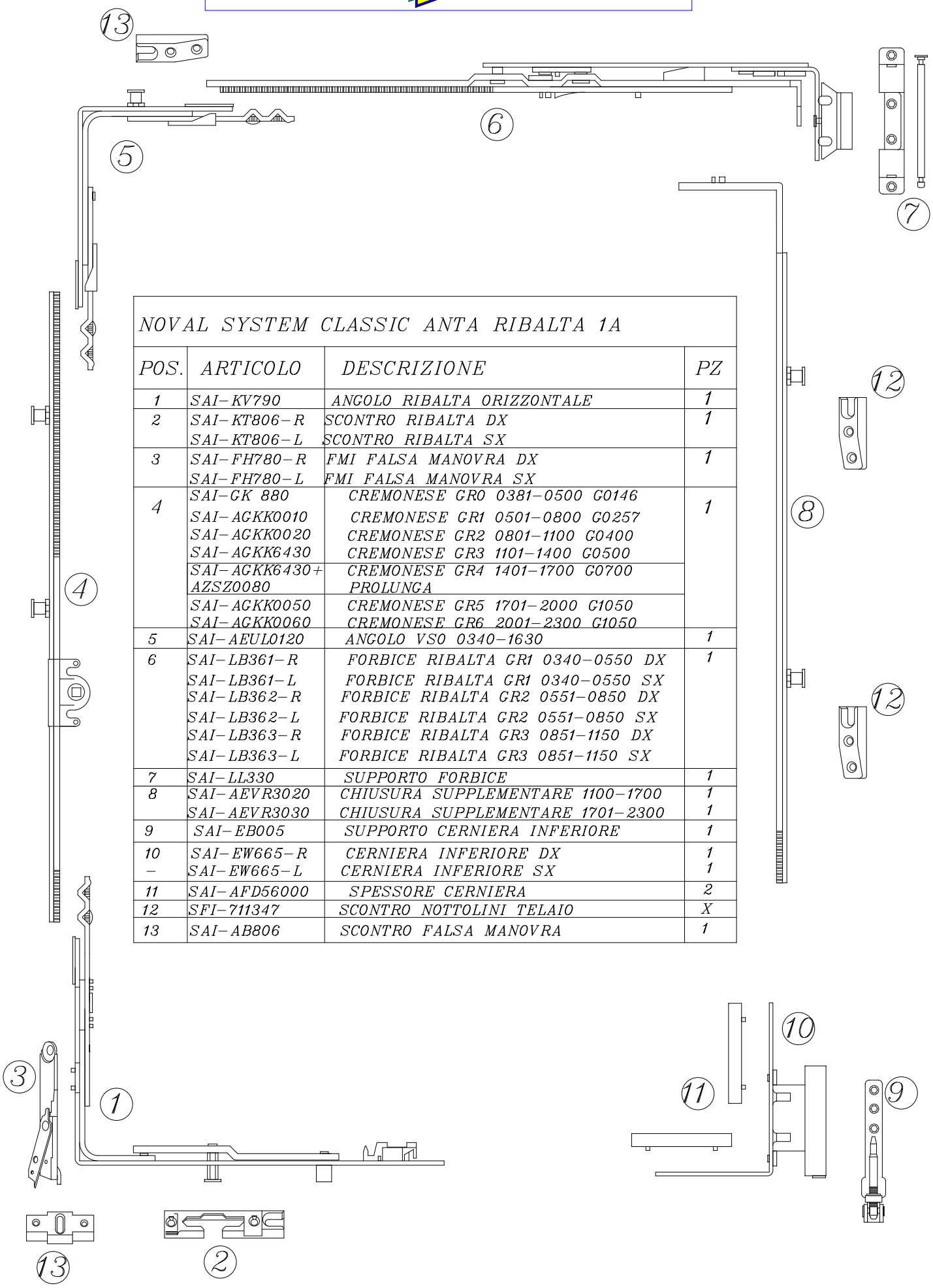
NOVAL SYSTEM CLASSIC ANTA SEMPLICE 1A			
POS.	ARTICOLO	DESCRIZIONE	PZ
1	SAI-GK 880	CREMONESE GR0 0381-0500 G0146	1
	SAI-AGKK0010	CREMONESE GR1 0501-0800 G0257	
	SAI-AGKK0020	CREMONESE GR2 0801-1100 G0400	
	SAI-AGKK6430	CREMONESE GR3 1101-1400 G0500	
	SAI-AGKK6430+ AZSZ0080	CREMONESE GR4 1401-1700 G0700 PROLUNGA	
	SAI-AGKK0050	CREMONESE GR5 1701-2000 G1050	
	SAI-AGKK0060	CREMONESE GR6 2001-2300 G1050	
2	SAI-AEUL0120	ANGOLO VS0 0340-1630	1
3	SAI-LL330	SUPPORTO FORBICE	1
4	SAI-BD363-R	BRACCIO ANTA SEMIFISSA DX	1
	SAI-BD363-L	BRACCIO ANTA SEMIFISSA SX	1
5	SAI-EB005	SUPPORTO CERNIERA INFERIORE	1
6	SAI-EW665-R	CERNIERA INFERIORE DX	1
-	SAI-EW665-L	CERNIERA INFERIORE SX	1
7	SAI-AFDS6000	SPESSORE CERNIERA	2
8	SFI-711347	SCONTRO NOTTOLINI TELAIO	X
9	SFI-700655	CERNIERA A SCOMPARSA ANTA 1100-1700	1
		1701-2300	2
10	SFI-873281	CERNIERA A SCOMPARSA TEL. 1100-1700	1
		1701-2300	2
11	AESC0100	TERMINALE CREMONESE	1

NOVAL SYSTEM s.r.l.



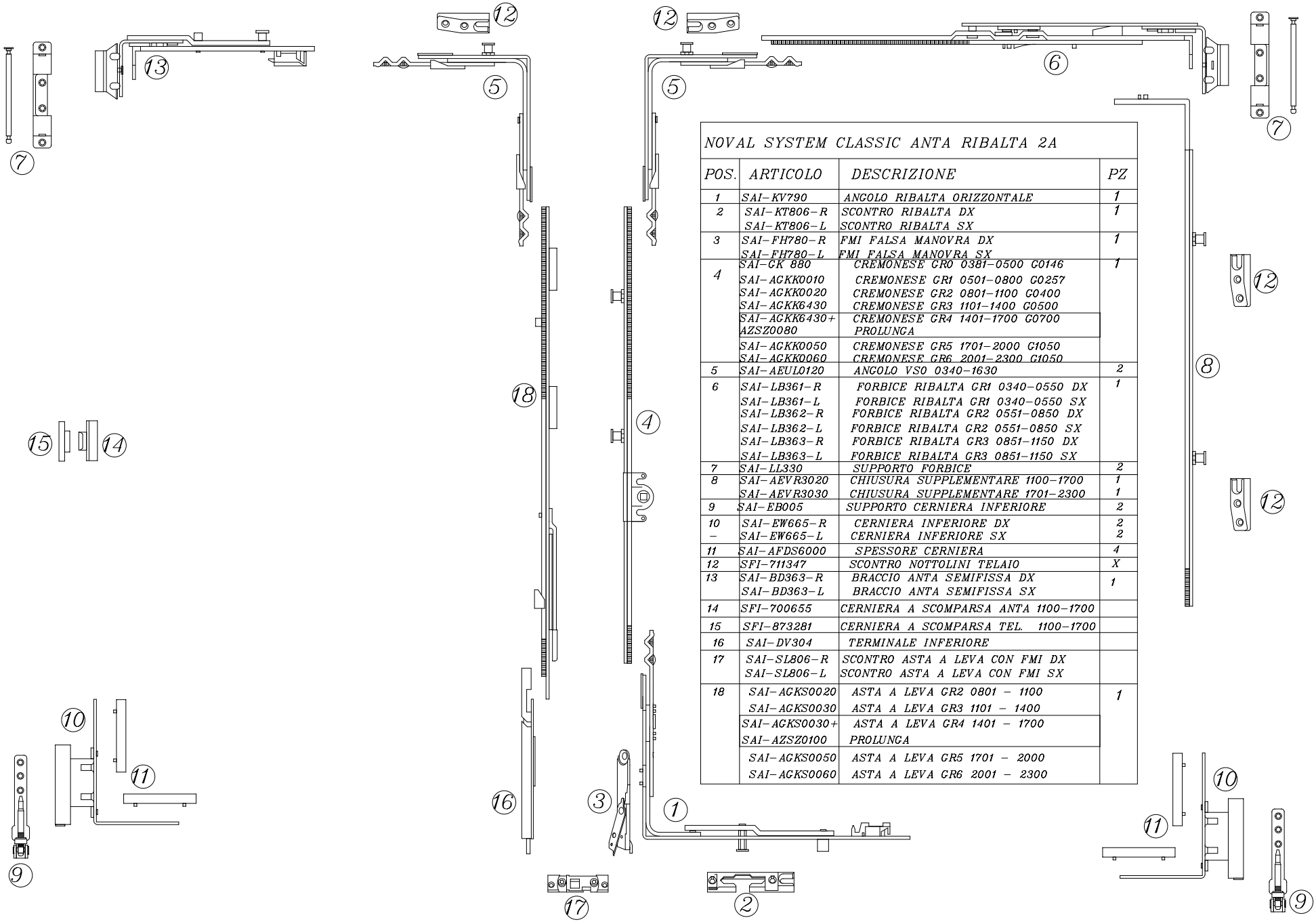
NOVAL SYSTEM CLASSIC ANTA SEMPLICE 2A			
POS.	ARTICOLO	DESCRIZIONE	PZ
1	SAI-GK 880	CREMONESE GR0 0381-0500 C0146	1
	SAI-AGKK0010	CREMONESE GR1 0501-0800 C0257	
	SAI-AGKK0020	CREMONESE GR2 0801-1100 C0400	
	SAI-AGKK6430	CREMONESE GR3 1101-1400 C0500	
	SAI-AGKK6430+ AZSZ0080	CREMONESE GR4 1401-1700 C0700 PROLUNGA	
	SAI-AGKK0050	CREMONESE GR5 1701-2000 C1050	
	SAI-AGKK0060	CREMONESE GR6 2001-2300 C1050	
2	SAI-AEUL0120	ANGOLO VS0 0340-1630	2
3	SAI-LL330	SUPPORTO FORBICE	2
4	SAI-BD363-R	BRACCIO ANTA SEMIFISSA DX	2
	SAI-BD363-L	BRACCIO ANTA SEMIFISSA SX	
5	SAI-EB005	SUPPORTO CERNIERA INFERIORE	2
6	SAI-EW665-R	CERNIERA INFERIORE DX	1
–	SAI-EW665-L	CERNIERA INFERIORE SX	1
7	SAI-AFDS6000	SPESSORE CERNIERA	4
8	SFI-711347	SCONTRO NOTTOLINI TELAIO	X
9	SFI-700655	CERNIERA A SCOMPARSA ANTA 1100-1700	2
		1701-2300	4
10	SFI-873281	CERNIERA A SCOMPARSA TEL. 1100-1700	2
		1701-2300	4
11	SAI-DV304	TERMINALE INFERIORE	2
12	SAI-SL206	SCONTRO POZZETTO 2 FORI	1
13	SAI-AGKS0020	ASTA A LEVA GR2 0801 - 1100	1
	SAI-AGKS0030	ASTA A LEVA GR3 1101 - 1400	
	SAI-AGKS0030+ SAI-AZSZ0100	ASTA A LEVA GR4 1401 - 1700 PROLUNGA	
	SAI-AGKS0050	ASTA A LEVA GR5 1701 - 2000	
	SAI-AGKS0060	ASTA A LEVA GR6 2001 - 2300	

NOVAL SYSTEM s.r.l.



NOVAL SYSTEM CLASSIC ANTA RIBALTA 1A			
POS.	ARTICOLO	DESCRIZIONE	PZ
1	SAI-KV790	ANGOLO RIBALTA ORIZZONTALE	1
2	SAI-KT806-R SAI-KT806-L	SCONTRO RIBALTA DX SCONTRO RIBALTA SX	1
3	SAI-FH780-R SAI-FH780-L	FMI FALSA MANOVRA DX FMI FALSA MANOVRA SX	1
4	SAI-GK 880 SAI-AGKK0010 SAI-AGKK0020 SAI-AGKK6430 SAI-AGKK6430+ AZSZ0080 SAI-AGKK0050 SAI-AGKK0060	CREMONESE GR0 0381-0500 G0146 CREMONESE GR1 0501-0800 G0257 CREMONESE GR2 0801-1100 G0400 CREMONESE GR3 1101-1400 G0500 CREMONESE GR4 1401-1700 G0700 PROLUNGA CREMONESE GR5 1701-2000 G1050 CREMONESE GR6 2001-2300 G1050	1
5	SAI-AEUL0120	ANGOLO VS0 0340-1630	1
6	SAI-LB361-R SAI-LB361-L SAI-LB362-R SAI-LB362-L SAI-LB363-R SAI-LB363-L	FORBICE RIBALTA GR1 0340-0550 DX FORBICE RIBALTA GR1 0340-0550 SX FORBICE RIBALTA GR2 0551-0850 DX FORBICE RIBALTA GR2 0551-0850 SX FORBICE RIBALTA GR3 0851-1150 DX FORBICE RIBALTA GR3 0851-1150 SX	1
7	SAI-LL330	SUPPORTO FORBICE	1
8	SAI-AEVR3020 SAI-AEVR3030	CHIUSURA SUPPLEMENTARE 1100-1700 CHIUSURA SUPPLEMENTARE 1701-2300	1 1
9	SAI-EB005	SUPPORTO CERNIERA INFERIORE	1
10 -	SAI-EW665-R SAI-EW665-L	CERNIERA INFERIORE DX CERNIERA INFERIORE SX	1 1
11	SAI-AFD56000	SPESSORE CERNIERA	2
12	SFI-711347	SCONTRO NOTTOLINI TELAIO	X
13	SAI-AB806	SCONTRO FALSA MANOVRA	1

NOVAL SYSTEM s.r.l.



NOVAL SYSTEM CLASSIC ANTA RIBALTA 2A

POS.	ARTICOLO	DESCRIZIONE	PZ
1	SAI-KV790	ANGOLO RIBALTA ORIZZONTALE	1
2	SAI-KT806-R SAI-KT806-L	SCONTRO RIBALTA DX SCONTRO RIBALTA SX	1
3	SAI-FH780-R SAI-FH780-L	FMI FALSA MANOVRA DX FMI FALSA MANOVRA SX	1
4	SAI-CK 880 SAI-AGKK0010 SAI-AGKK0020 SAI-AGKK6430 SAI-AGKK6430+ AZSZ0080 SAI-AGKK0050 SAI-AGKK0060	CREMONESE CR0 0381-0500 C0146 CREMONESE CR1 0501-0800 C0257 CREMONESE CR2 0801-1100 C0400 CREMONESE CR3 1101-1400 C0500 CREMONESE CR4 1401-1700 C0700 PROLUNGA CREMONESE CR5 1701-2000 C1050 CREMONESE CR6 2001-2300 C1050	1
5	SAI-AEUL0120	ANGOLO VS0 0340-1630	2
6	SAI-LB361-R SAI-LB361-L SAI-LB362-R SAI-LB362-L SAI-LB363-R SAI-LB363-L	FORBICE RIBALTA CR1 0340-0550 DX FORBICE RIBALTA CR1 0340-0550 SX FORBICE RIBALTA CR2 0551-0850 DX FORBICE RIBALTA CR2 0551-0850 SX FORBICE RIBALTA CR3 0851-1150 DX FORBICE RIBALTA CR3 0851-1150 SX	1
7	SAI-LL330	SUPPORTO FORBICE	2
8	SAI-AEVR3020 SAI-AEVR3030	CHIUSURA SUPPLEMENTARE 1100-1700 CHIUSURA SUPPLEMENTARE 1701-2300	1 1
9	SAI-EB005	SUPPORTO CERNIERA INFERIORE	2
10 –	SAI-EW665-R SAI-EW665-L	CERNIERA INFERIORE DX CERNIERA INFERIORE SX	2 2
11	SAI-AFDS6000	SPESSORE CERNIERA	4
12	SFI-711347	SCONTRO NOTTOLINI TELAIO	X
13	SAI-BD363-R SAI-BD363-L	BRACCIO ANTA SEMIFISSA DX BRACCIO ANTA SEMIFISSA SX	1
14	SFI-700655	CERNIERA A SCOMPARSA ANTA 1100-1700	
15	SFI-873281	CERNIERA A SCOMPARSA TEL. 1100-1700	
16	SAI-DV304	TERMINALE INFERIORE	
17	SAI-SL806-R SAI-SL806-L	SCONTRO ASTA A LEVA CON FMI DX SCONTRO ASTA A LEVA CON FMI SX	
18	SAI-AGKS0020 SAI-AGKS0030 SAI-AGKS0030+ SAI-AZSZ0100 SAI-AGKS0050 SAI-AGKS0060	ASTA A LEVA CR2 0801 - 1100 ASTA A LEVA CR3 1101 - 1400 ASTA A LEVA CR4 1401 - 1700 PROLUNGA ASTA A LEVA CR5 1701 - 2000 ASTA A LEVA CR6 2001 - 2300	1

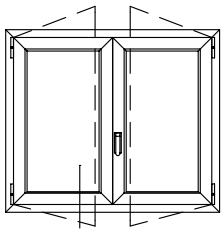
NOVAL SYSTEM

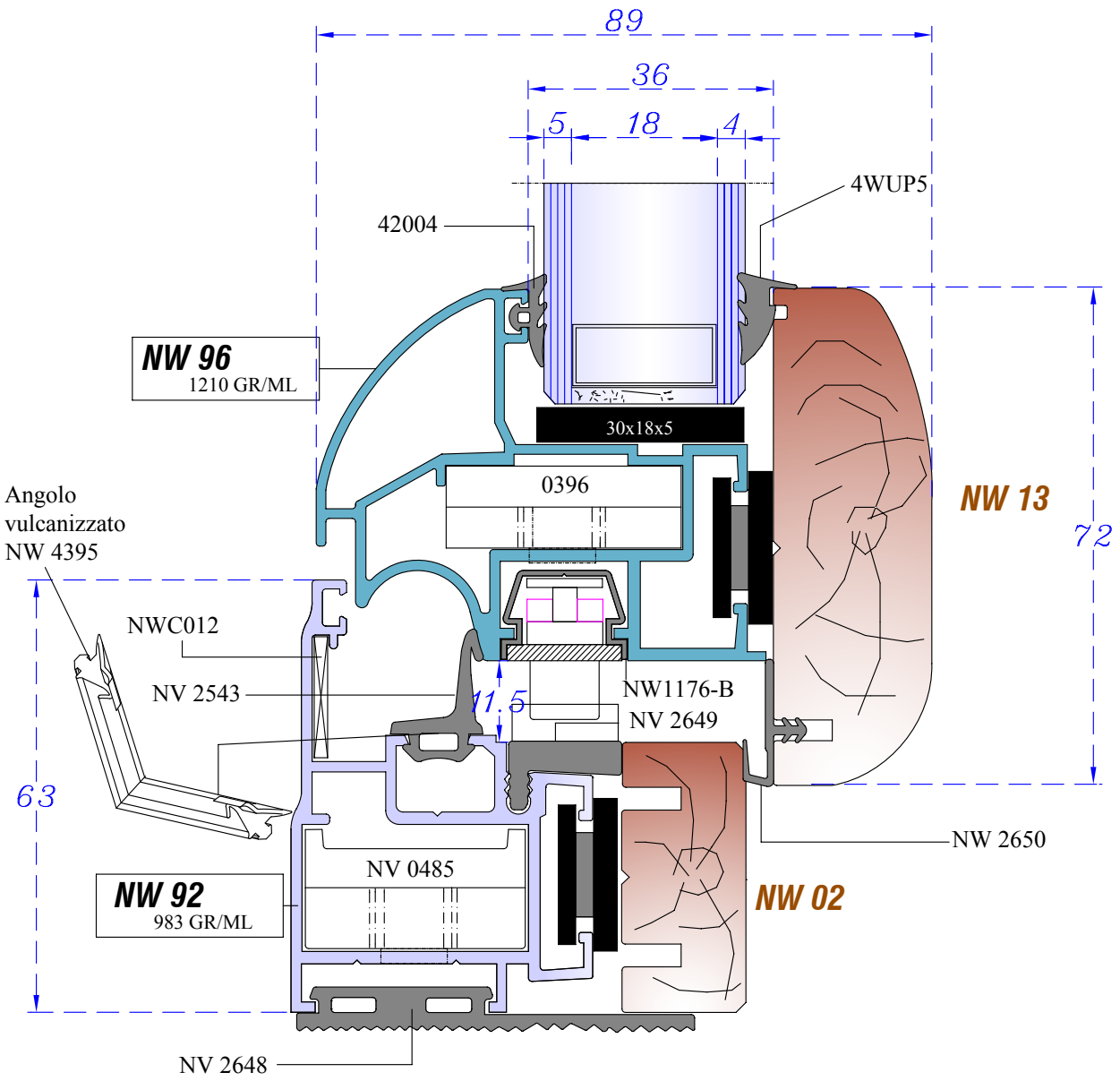
serramenti **alluminio** - alluminio/**legno**

Catalogo **Tecnico**

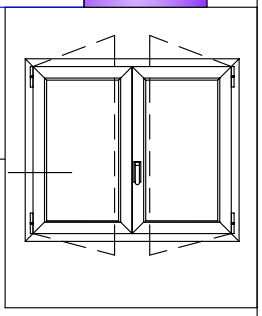
CLASSIC NEW

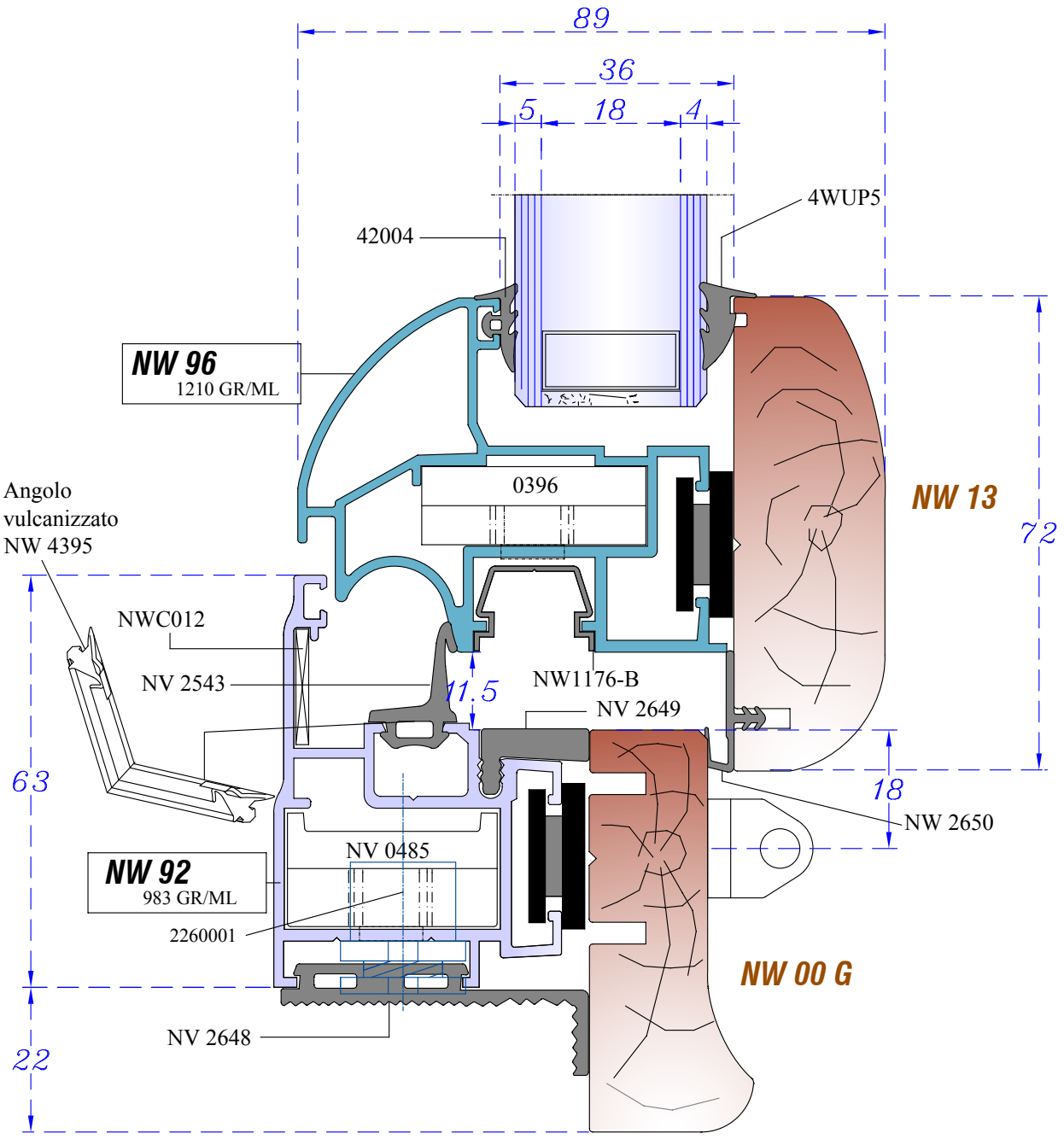
NODO INFERIORE



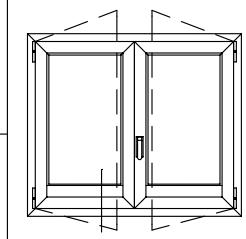


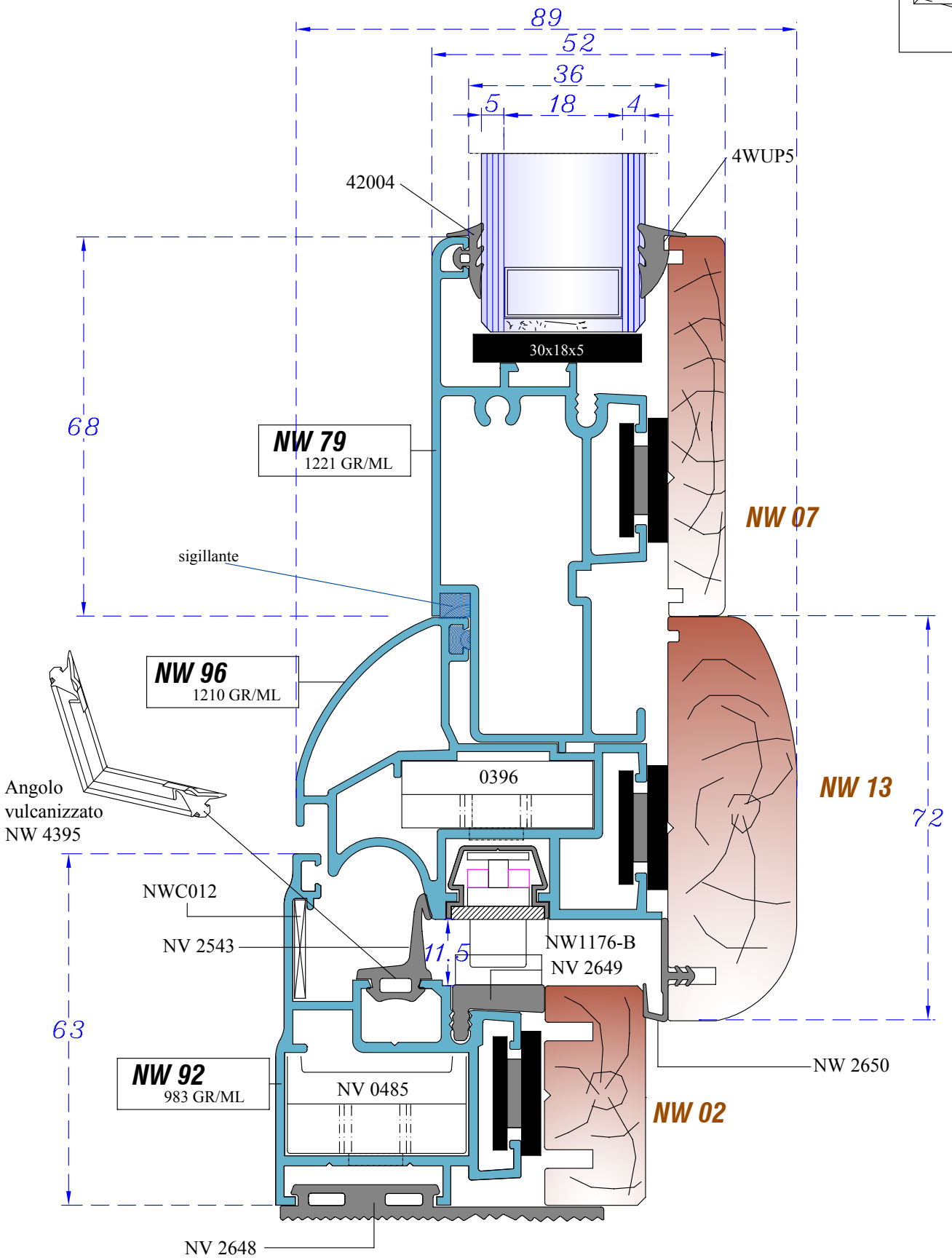
NODO LATERALE



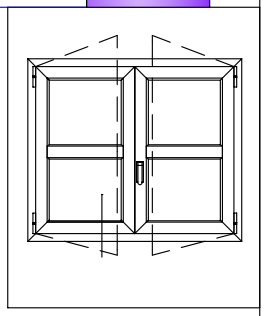


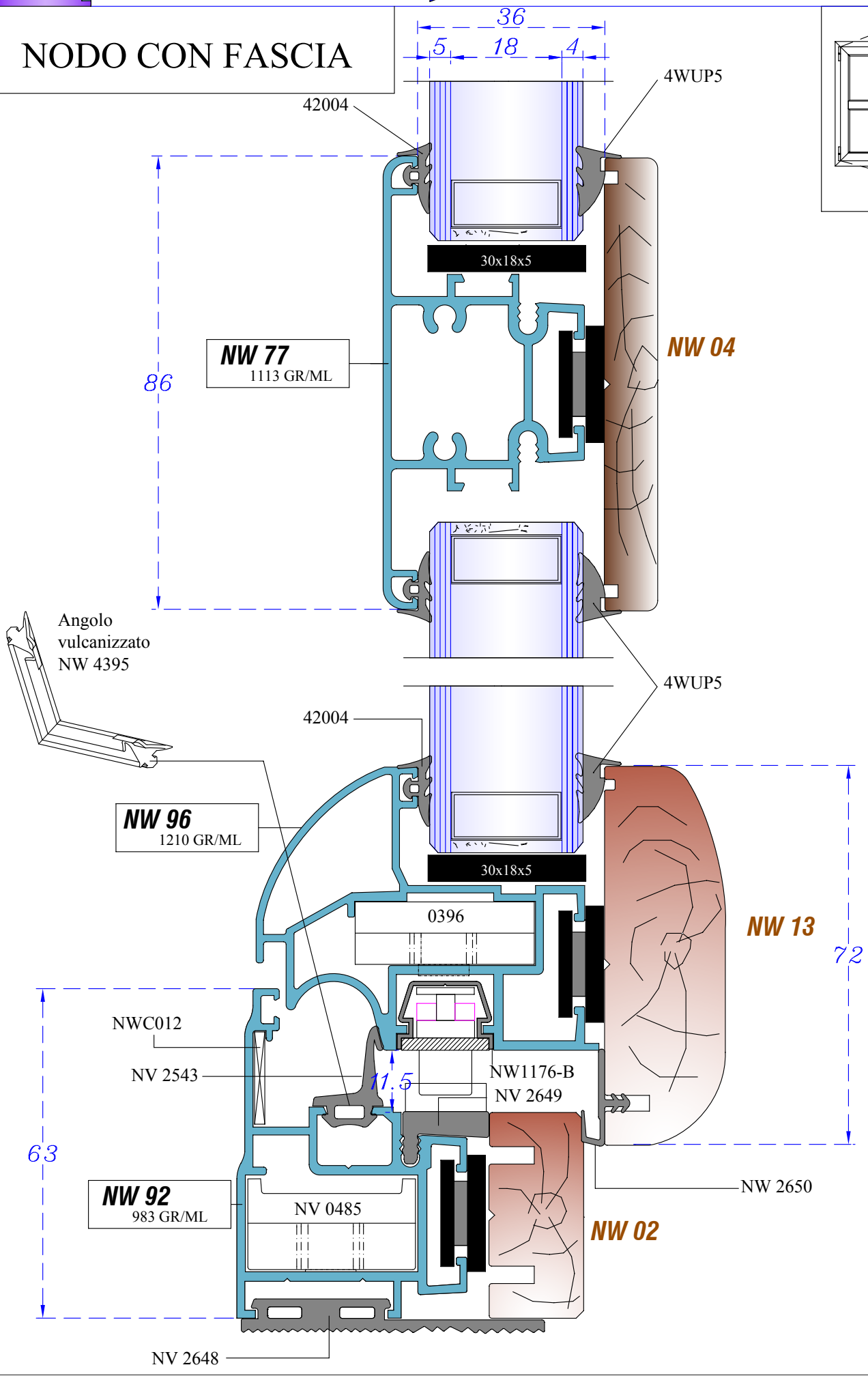
NODO ZOCCOLO RIPORTATO





NODO CON FASCIA





NODO CENTRALE